Kevin CY Chen

Sr. Software Engineer Manager / Full-Stack Dev / DevOps

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📍 Ottawa, Canada

As a Sr. Software Engineering Manager with 19 years of international tech experience, I lead high-performing teams to deliver scalable enterprise solutions using microfrontends and microservices. I excel in driving organizational initiatives including North American region R&D training programs, cross-region AI taskforce collaboration and fostering employee engagement.

As a hands-on technical leader, I consistently transform business requirements into actionable development strategies that drive competitive advantage and meet market demands. I enable engineering teams to architect and develop modern applications while implementing DevOpSec practices and agile methodologies. I have successfully delivered multiple high-impact projects by effectively managing resources, stakeholder expectations, and development lifecycles.

I'm passionate about fostering innovation and continuous improvement, ensuring my teams are well-equipped to execute efficiently while creating environments where engineers thrive and deliver customer-centric solutions.

AI · **Software Engineer Manager** · **Full Stack** · **Cloud Architech** · **DevOps**
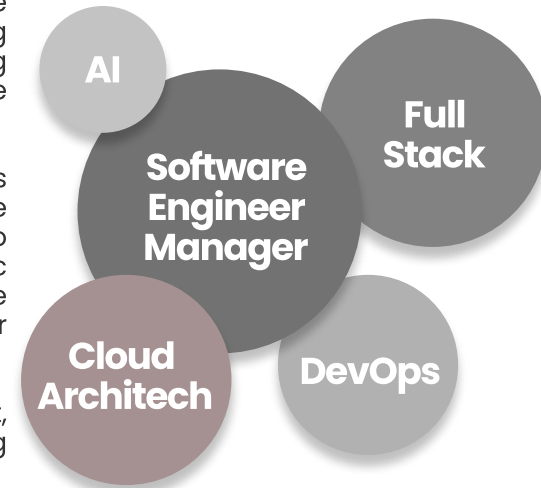
SKILLS

- Modern SaaS Development
- AWS Generative AI - RAG
- AWS Cloud Serverless Solution
- Architecture - Microfrontend
- DevOps Automation - IaC

- Astro, Next.js, Gatsby
- JavaScript, TypeScript
- React.js, Redux, i18n, l10n
- CSS-in-JS, CSS Modules
- UX, UI Design, Figma

- API - REST, GraphQL
- Servers - Nginx, Express, Node.js
- Security - Threat Modeling, CSP
- Test - Jest, Cypress, Puppeteer
- Elasticsearch, Splunk, Agolia

- Docker Container
- CI/CD - GitHub Actions
- IaC - AWS CDK
- J2EE, JSP, Java
- RDBMS, NoSQL

Sr. Software Engineer Manager
Team, Project Management / AWS Certified Solutions Architect

Feb 2022 - Present, Cybersecurity Web App Team, Trend Micro CANADA

I lead software engineer teams to develop and implement new capabilities for our cybersecurity platform that align with business objectives.

I engage in organizational initiatives, collaborating with stakeholders to shape policies and strategic plans. This fosters a culture of innovation to unlock growth opportunities, driving impactful changes and enhancing overall organizational effectiveness.

- Led the end-to-end software development lifecycle, from ideation and requirements to implementation, testing, deployment, and operations

- Collaborated with cross-site leaders, external partners, and R&D contributors on organizational initiatives

- Led planning, organization, and delivery of NABU R&D Training Initiatives

- Enabled and supported AI initiatives, fostering an innovative and collaborative R&D environment

DOMAIN

Team Development	People Management	Project Management
Organizational Learning	AI Technology Champion	Learning & Sharing
AWS Certifications x 3	Cross-team & Cross-functional Collaboration	

KEY RESULTS

- Led a team of software developers with a high engagement rate and top tier retention rate

- 100% retention & return rate for co-op and new hires. Built knowledge / training website to help one become a successful developer

- Integrated AWS and other training resources for the US and Canada R&D group, resulting in 341 individuals were trained over the past year

- Remarkable 18% increase in employees' favourability about their understanding of performance measurement

- Established an AI Resource & Project Hub as a central platform for developers to collaborate, share ideas, and build AI applications

- Established developer collaboration model across global teams in Canada, USA, Taiwan, and China

- Guided and mentored team members, fostering their professional growth

- Championed UI/UX consistency by promoting UX library code reuse and eliminating redundancy across frontend teams

- Demonstrated technical leadership through ongoing professional development, earning multiple AWS Certifications

TECH

JavaScript, TypeScript	Amazon Q, Bedrock	AWS CloudFront, Route53
React, D3.js	AWS CDK	AWS CloudWatch, RUM
Vite, GitHub Actions	AWS WAF, Alarm	AWS S3, Lambda

- Enabled iterative development at a rapid pace with Infrastructure as Code and the DevOps process (200+ PR in 4 months)

- Led by example, achieving top recognition in AI Contests & consistently participating Hack Day events

- Contributed to the development of career advancement framework

Sr. Staff Software Engineer
Team Lead / DevOps / Web App Developer
Jan 2020 - Jan 2022, Web Platform Team, Trend Micro CANADA

I lead the team responsible for developing and providing guidance on integrating various web applications across SaaS service teams on the AWS cloud-native platform.

- Architect, prototype and develop, deploy the microfrontend platform for various SaaS product integration projects

- Introduce DevOps strategies when building cloud native, dockerized technologies for integration and infrastructure provisioning with IaC

- Provide guidance for SaaS product integration of different frontend tech stack such as React/Angular/Ember/J2EE JSP

- Create CI/CD automation across different React web applications with Serverless that deploys to AWS Cloud

- Establish the UX & Developer collaboration model between Teams across Canada, USA, Taiwan and Australia

- Automate the deployment of AWS CloudWatch & Canary with SNS alarm for health monitoring and respond to incident with playbook

TECH

JavaScript, TypeScript	Docker, Nginx, CORS	AWS CloudFront, Route53
React, Redux, Cypress	Jenkins, Serverless	AWS CloudWatch, Cognito
Webpack, Rollup	AWS CloudFormation	AWS S3, Lambda, ECR, SNS

KEY RESULTS

- 479+ successful service release deployments in 9 months for dozen of React frontend services

- Integrated six major SaaS offerings on a unified web application shell with SSO (single sign-on) experience

- Enabled six globally distributed frontend teams to develop in parallel with the autonomy and tech stack they need for velocity

- Adopted DevOps practice with CI/CD and automated local / AWS Cloud infrastructure provisioning to improve DevExp

- Prototyped UX telemetry to enable data driven workflow in DevOps & hypothesis formulation process

Sr. Staff Software Engineer
Frontend-Dev Guild Coordinator / Full-Stack Developer
Mar 2018 - Jan 2020, Improve Operations Team, Trend Micro CANADA

I led the modernization of the SaaS platform's frontend by implementing a flexible and scalable microfrontend architecture, enabling parallel development streams and reducing time-to-market. Additionally, I facilitated knowledge sharing through the Frontend-Dev Guild to support the team with technology evaluation, microservices transition, and microfrontend changes.

KEY RESULTS

- Developed a detailed plan and led the team to modernize the legacy J2EE JSP frontend using React.

- Developed the custom microfrontend architecture that suits the frontend integration model needed by various SaaS products

- Executed the initiative to modernize the product frontend using a React component library through the Frontend-Dev Guild across all teams

- Researched, evaluated, and prototyped a microfrontend architecture to facilitate the transition of React, Angular, and legacy J2EE JSP front-end projects.

- Involved in the process of backend API building, testing, JavaScript SDK building and release workflow

- Provide various knowledge sharing that helps the team with technology evaluation and microservice transition

TECH		
JavaScript, ES6+, Babel	Jest, Puppeteer	REST & GraphQL API
React, Component Lib	Node.js, Docker	Framer X
Webpack, Rollup	CSS Modules, PostCSS	J2EE, JSP, Java

Sr. Staff Software Engineer
Team Lead / Full-Stack Developer / Scrum Master

Oct 2015 – Feb 2018 Development Group, Trend Micro CANADA

I led an agile team in delivering high-impact security features for the flagship product's major releases.

- Led feature development from requirements through iterative design and implementation, engaging stakeholders and conducting feasibility studies

- Research, evaluate, prototype microfrontend architecture to help the transition of React/Angular/legacy J2EE JSP frontend projects

- Design, develop a reusable React Component Library that implements the product Design System provided by UX team

- Orchestrated all core Scrum ceremonies and facilitated team development through 1-on-1 coaching sessions

TECH		
JavaScript, ES6, Babel	J2EE, JSP, Java	REST API, Hapi, JSON Server
React, Component Lib	Postgresql, Oracle	Node.js, Docker
Storybook, Webpack	Jest, Cypress	Scrum, JIRA, Git

Staff Software Engineer
Solution Researcher / Full-Stack Developer

As a main contributor in a forward-thinking Research Team, I put many new ideas into prototypes that was later productized by the Scrum Teams in many years to come.

- Conducted research tasks involving critical analysis of feasibility, pros and cons, and differentiators for specific use cases and technologies.

- Evaluated technology potential by aligning it with business goals and technical requirements

- Research scope encompassed modern front-end technologies React and Angular, the ELK stack, AWS DynamoDB, data mining and UX

- Provided research updates and shared prototype solutions with both potential clients and internal teams.

TECH		
J2EE, JSP, Java	Elasticsearch	Logstash, Kibana
AngularJS, React	Meteor, Material CSS	AWS DynamoDB, CloudTrail
JavaScript, jQuery	UX Visualization, D3	Redis, mongoDB, docker

Staff Software Engineer
Full-Stack Developer / Service Engineer / Scrum Master

Jan 2013 – Aug 2014 Dev, Service Engineering, Trend Micro CANADA

As a full-stack developer in service engineering group, I resolved critical customer issues and implemented product enhancements while serving as Scrum Master to optimize agile practices and improve team efficiency.

TECH

J2EE, JSP, Java	jQuery, Bootstrap	AWS EC2, SQS, Dynamo DB
JProfiler, install4j	JavaScript, Node.js	AWS Elastic Beanstalk
JasperReports	Express.js, socket.io	MS SQL Server

Staff Software Engineer
Expatriate Full-Stack Developer

Jan 2010 – Dec 2012 Development Group, Trend Micro CANADA

As one of the first three software engineers selected for an expatriate assignment in Canada, I drove the integration of Trend Micro's core security technologies into ThirdBrigade's existing solutions following its acquisition. As Feature Owner of the Anti-Malware Solution Platform Integration, I spearheaded the Deep Security Manager Server development and GUI redesign, collaborating with cross-regional teams across Taiwan, Canada, and the US to implement improvements and optimize user experience.

TECH

J2EE, JSP, Java	jQuery, Bootstrap	VMware vSphere
Localization	MS SQL Server	VMware vCenter

in More on LinkedIn

Staff Software Engineer
Expatriate Full-Stack Developer

Oct 2009 – Jan 2010 Trend Micro Cupertino, CA, USA

Staff Software Engineer
Enterprise/VLE Segment Full-Stack Developer / Mac Developer

Mar 2009 – Sep 2009 Trend Micro TAIWAN

Senior Software Engineer
Enterprise/VLE Segment Full-Stack Developer / Mac Developer

Jun 2008 – Feb 2009 Trend Micro TAIWAN

Senior Software Engineer
Enterprise/VLE Segment Full-Stack Developer

Jan 2007 – May 2008 Trend Micro TAIWAN

Software Engineer
Enterprise/VLE Segment Full-Stack Developer

Mar 2005 – Jan 2007 Trend Micro TAIWAN

Computer Engineer
Intern

Nov 2001 – Feb 2002 SLP Computer NEW ZEALAND

KEY RESULTS

- Helped the service engineering team enhance the existing processes to become more agile and resilient to priority changes
- Automated the back-end/front-end software update operations
- Resolved product performance issues by profiling and execution of scalability tests
- Successfully integrated the major security features into product originated from the newly acquired company in Canada
- Assisted the Canadian team in understanding Trend Micro technologies and processes
- Facilitated the integration projects with status update and risk identification for many product releases
- Joined Service Engineering Group to support the already released products

KEY RESULTS

- Successfully accomplished the feature set for the upcoming expatriation assignment in Canada
- Successfully rolled out Mac endpoint protection client to enterprise customers
- Successfully developed the first common client in Trend Micro that offers security protection for Mac platforms
- Proposed the Mac client integration model that was eventually adopted in both the consumer based and enterprise product for Mac
- Conducted a successful demo to CEO and other executive that opened many new possibilities for integration with flagship endpoint protection product

Awards & Recognitions & Patent

Dec 2023 Trend Micro CANADA **2nd Place** of **AI Contest Final - Global Winner from 1348 Finalists**
In a team of 16 talented individuals, we embarked on a 24-hour marathon contest aimed at achieving the ideathon's goals. I played a key role in enabling and presenting our team's security compliance solution, highlighting business strategy, solution architecture, showcased an implemented solution with completeness and revenue-driving potential to an audience of 1,300+ finalists and executives leaders.

Sep 2023 Trend Micro CANADA **1st Place** of **AI Contest Ideathon - Canada Regional Finals Winner**
To unlock the full potential of *AI in streamlining security and compliance*, both within our organization and for our customers, we have developed a comprehensive and phased approach. This approach can be seamlessly integrated into the development phase, while also offering a fully integrated solution on our cybersecurity platform.

Jul 2020 Trend Micro CANADA **4th Place** of 23 teams in "R&D Hack Day".
Using telemetry to understand how customer use our SaaS services. The idea from this POC had also gained huge traction from all other SaaS frontend teams we have worked with and later paved the critical path for the adoption strategy of telemetry technology and data/hypothesis driven workflow used in DevOps and requirement formulation process.

Jul 2019 Trend Micro CANADA **2nd Place** of 27 teams in "R&D Hack Day"
Developed AI Chatbot - dynamic *help assistant powered by machine learning* chatbot to improve the experience of using product's help system with natural conversation experience.

Dec 2016 Trend Micro CANADA **2nd Place** of 20 teams in "R&D Hack Day"
Developed a fully functional end-to-end *voice assistant powered by AI* that could interact directly with the user of our product. It involved the integration with Google Cloud Speech Recognition API, IBM Bluemix Conversation service, Text to Speech service, Twilio for making support phone calls, nodejs REST APIs, selenium webdrivers, Chrome driver, Product UI & API.

Jul 2016 Trend Micro CANADA **1st Place** of 24 teams in "R&D Hack Day"
"Searchable Product + Product Usage Insight" Developed the universal search feature for our endpoint protection solution with telemetry using Segments + Google Analytics + AWS S3

Dec 2015 Trend Micro CANADA **3rd Place** in "R&D Hack Day" Web App Performance Benchmarking

Aug 2015 Trend Micro CANADA **2nd Place** in "R&D Hack Day" Containerized SaaS with AWS ECS

Jan 2015 Trend Micro CANADA **2nd Place** in "R&D Hack Day" Log visualization with Elasticsearch

Sep 2014 US Patent **Patent Issued**: Instant Messaging Malware Protection

Apr 2014 Trend Micro CANADA **1st Place** in "R&D Hack Day" Real-Time support centre

Mar 2013 Trend Micro CANADA **Fuji Project Appreciation - "Glamour Award"**

May 2011 Trend Micro GLOBAL **2nd place** in "2011 Trend Micro Company-wide Solution Contest"

Feb 2011 Trend Micro CANADA **Most Valuable Trender - Trustworthiness**

Notable Education & Trainings

VERIFIED

2024 Nov QCon Trainings

- 10 Truths in Distributed System Design
- Platform Strategy: Innovation Through Harmonization

2024 Sep AWS Certified Cloud Practitioner

2024 Aug AWS Certified Developer – Associate

2024 Jun Certificate of Completion for Developing Generative AI Applications on AWS

2023 Sep AWS Certified Solutions Architect – Associate

2023 Jul Career Essentials in Generative AI by Microsoft and LinkedIn - Learning Path Completed

2022 Mar Develop Your Skills as a New Manager - Learning Path Completed

2022 Jan Coaching and Developing Employees

2019 Jan Kubernetes: Microservices by LinkedIn

2019 Jan React, Security, & Full-Stack Auth with Node.js and PostgreSQL by Udemy

2018 Aug Artificial Intelligence Foundations: Thinking Machines by LinkedIn

2015 Core Elasticsearch Training by elastic

2014 Tackling the Challenges of Big Data by MIT Professional Education

2011 VMware Certified Professional by VMware

2004 Master of Engineering - University of Auckland (New Zealand)

- 2nd Class Honours Software Engineering Specialisation

Notable Sharing, Project Demo & Courses I Gave

2024 QCon Post-Conference Sharing: Unlocking Engineering Productivity

2024 Employee Engagement Initiative: Performance Measurement

2024 Detect Cyber Intrusion & Predict Customer Churn With Machine Learning (GCP Vertex AI)

2024 Your Training Coach - AWS Learning Accelerator with AI - Claude 3, Stable Diffusion XL, PartyRock

2024 AWS re-invent Post-Conference Sharing: Generative AI

2023 AWS Serverless AI Chatbot - Improve Dev Learning Experience with RAG & Claude 2.1

2022 Website Search Engine Optimization (SEO) Improvement

2020 CORS API Mocking via Service Worker - Teaching Thursday Series

2020 Fast Value Delivery with Continuous Integration - DevOps Series

2019 Microfrontend - Why & How

2019 Takeaways from An Event Apart (AEA) Conference 2019

2019 Build Reactive UI - for Async Backend with Realtime GraphQL

2019 UX Telemetry Support in Frontend with React & JSP