

# Kevin Chen

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## EDUCATION

<b>Rochester Institute of Technology</b> <i>Bachelor of Science in Software Engineering</i>	Rochester, NY <i>Expected May 2027</i>
<ul style="list-style-type: none"><li>• Cumulative GPA: 3.18</li><li>• Dean's List: Spring 2023, Spring 2025</li><li>• Relevant Courses: Eng Cloud Software Systems, Software Testing, Engineering of Enterprise Software Systems, Engineering of Software Subsystems (Embedded), Software Process &amp; Project Management, Web Engineering, Software Development and Problem Solving 1 &amp; 2 (Python, Java, Git)</li></ul>	

## CERTIFICATIONS

AWS Certified Cloud Practitioner – Amazon Web Services, 2025

Ivalua Level 1 (Platform) and Level 2 (Technical and Configuration) Certifications – Ivalua, 2025

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, C, C++, C Sharp, SQL, Bash.

**Web Technologies:** HTML, CSS, React.js, Next.js, Node.js, Express.js, Prisma ORM, Flask, .NET, Vercel, REST APIs, OAuth 2.0.

**Databases:** MongoDB, PostgreSQL, Microsoft SQL Server, MariaDB.

**Dev Tools:** Git, GitHub, GitHub Actions, GitLab (CI/CD, Runner), SVN, Docker, Docker Compose, Nx, VS Code, Visual Studio, Postman, cURL, Vim, Jest, JUnit, Pytest, Unix/Linux.

**Cloud & Infra:** AWS (Lambda, EventBridge, SNS, Comprehend, EC2, S3, CloudWatch, IAM), Terraform, nginx, Vercel.

**Other Technologies:** Apache HTTP Server, STM32Cube, JSON, XML, Selenium.

## EXPERIENCE

<b>Customer Application Engineer Intern</b> <i>Ivalua</i>	Oct 2025 – Apr 2026 <i>Fremont, CA (Hybrid)</i>
<ul style="list-style-type: none"><li>• Provide post-go-live support for Ivalua's enterprise procurement platform, validating configuration and data change requests using C#, .NET, and Microsoft SQL Server.</li><li>• Diagnosed and resolved a role-based authorization misconfiguration for a major semiconductor client that prevented admin users from assigning required access profiles, restoring correct permissions without disrupting ongoing operations.</li><li>• Write and execute SQL scripts to clean up customer environments (e.g., removing blank workflows and invalid records) to maintain data integrity and workflow consistency.</li><li>• Use tools such as Visual Studio, Tortoise SVN, and Microsoft SQL Server Management Studio to debug issues, review changes, and deliver safe, incremental updates.</li><li>• Participate in weekly team meetings to report progress, discuss blockers, and coordinate next steps with senior engineers, while holding Ivalua Level 1 (Configuration) and Level 2 (Technical) certifications.</li></ul>	

## PROJECTS

**TA Portal – DevOps & Infrastructure** | *Github Actions, Docker, nginx, Nx, MariaDB* | *RIT SCOOP Program 2025*

- Designed a GitHub Actions CI/CD pipeline for an Nx monorepo that ran lint/tests in parallel and deployed only affected services based on branch naming conventions.
- Containerized a 4-service architecture (MariaDB, Workflow API, Express.js backend, Next.js frontend) using Docker Compose with health checks, dependency ordering, and persistent volumes for reliable restarts.
- Configured an Ubuntu VM with Docker and nginx as a reverse proxy with SSL termination, routing external HTTPS traffic to internal HTTP containers and simplifying application configuration.
- Established SSH key-based authentication from GitHub Actions to the production VM and secured access with UFW firewall rules, eliminating manual SSH steps from the deployment process.
- Resolved Prisma ORM startup failures and Next.js routing issues behind nginx by updating Dockerfiles and basePath configuration, preventing 404s and container crashes in production.

- Authored deployment and troubleshooting documentation covering Docker, nginx, firewall setup, and CI/CD workflows so other team members could maintain and debug the system.

**Enterprise Application Project** | *MERN Stack, Recharts, Jest* | *Enterprise Engineering Course Project* 2024

- Collaborated with a team of four using Agile Methodologies to develop a full-stack MERN application for a simulated enterprise, meeting specified business requirements.
- Built and tested a secure RESTful API with Node.js, Express.js, and MongoDB, featuring over 12 CRUD endpoints and achieving 95% unit test coverage with Jest.
- Developed a responsive React client with a Recharts analytics dashboard to visualize key metrics, which improved user task completion time and informed strategic decisions.
- Managed the deployment of the full MERN stack to an Ubuntu server, configuring Apache HTTP Server as a reverse proxy to the backend.

**WatchOS Voice Chatbot** | *SwiftUI, XCode, Groq API, REST* | *Personal Project* 2024

- Programmed a proof-of-concept voice-to-voice chatbot on watchOS using SwiftUI for the user interface and AVFoundation for audio capture and playback.
- Integrated with the Groq API for near-real-time AI inference, leveraging Whisper for speech-to-text and Llama 3.1 for text generation, achieving an average response time of under 2 seconds.
- Engineered the network layer to handle asynchronous API calls and manage data flow between the app and the backend services efficiently.