

Kevin Chen

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EDUCATION

Rochester Institute of Technology

2023 - May 2027

Bachelor of Science, Software Engineering (GPA: 3.18)

- **Achievements:** Dean's List: Spring 2023, Spring 2025
- **Coursework:** Eng Cloud Software Systems, Software Testing, Engineering of Enterprise Software Systems, Engineering of Software Subsystems (Embedded), Software Process & Project Management, Web Engineering, Software Development and Problem Solving 1 & 2 (Python, Java, Git)

CERTIFICATIONS

- AWS Certified Cloud Practitioner: Amazon Web Services, 2025

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, C, C++, C Sharp, SQL, Bash
- **Frontend:** HTML, CSS, React.js, Next.js, Tailwind CSS
- **Backend:** Node.js, Express.js, Flask, .NET, REST APIs, OAuth 2.0, JWT
- **Databases:** MongoDB, PostgreSQL
- **Dev Tools:** Git, GitHub, GitHub Actions, GitLab (CI/CD, Runner), Docker, Docker Hub, VS Code, Postman, cURL, Vim, Jest, Unix/Linux
- **Cloud & Infra:** AWS (Lambda, EventBridge, SNS, Comprehend, EC2, S3, CloudWatch, IAM), Terraform, Vercel, Render, Composio, Hetzner, Plivo, Claude Code
- **Other:** Apache HTTP Server, Selenium, JSON, XML, Agile Methodologies, Scrum

PROJECTS

DepScope - Multi-Agent Dependency Risk Analyzer | *Creators Corner*

2026 - Present

- Built autonomous 3-agent pipeline that evaluates open-source packages across 5 risk dimensions (security, maintenance, stability, community, documentation), producing letter grades with severity-ranked findings and actionable recommendations
- Engineered Composio-orchestrated tool execution with parallel agent dispatch, structured I/O schemas, and automatic fallback to direct execution when orchestration fails
- Integrated Plivo voice alerting system with Gemini-generated TTS scripts, DTMF input handling (press 1 for detailed SMS report, press 2 to dismiss), and dynamic XML response generation from request headers
- Designed watchlist monitoring service with cron scheduling, per-package scan tracking, and cascading fallback chain across 3 Gemini models with demo-cache safety net when all APIs are exhausted
- Implemented real-time SSE streaming to React dashboard showing live agent progress, radar chart scoring, pattern aggregation across analyses, and alternative package comparison
- Deployed backend on Render with auto-derived callback URLs, graceful degradation across 5 external APIs, and retry-with-backoff on every integration boundary

FactCheckMe | *Transpose Platform*

2026 - Present

- Built a real-time audio fact-checking web app that transcribes live speech via ElevenLabs Scribe, extracts factual claims, and verifies them against live Google Search results using Gemini 3.0 Flash with search grounding - delivering verdicts with confidence scores and cited sources in 2-3 seconds
- Engineered a semantic caching layer using Hyperspell that recognizes paraphrased claims (85% similarity threshold), reducing repeat verification latency from ~3s to <100ms and cutting API costs by up to 90% optimized for political debate scenarios with recurring talking points
- Designed a full-stack pipeline (React/TypeScript, Supabase Edge Functions, PostgreSQL with real-time subscriptions) featuring voice activity detection, asynchronous claim queuing with 2-second throttling, and a live dashboard with verdict history and statistics

TA Portal -- DevOps & Infrastructure Lead | *Rochester Institute of Technology*

2025

- GitHub Actions, Docker, nginx, Prisma, Next.js | Course Project
- Designed and implemented a GitHub Actions CI/CD pipeline using Nx monorepo tooling, enabling parallel lint/test execution and automated deployments triggered by 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.
- Configured nginx as a reverse proxy with SSL termination, routing traffic to Docker containers and eliminating the need for application-level HTTPS handling.
- Established SSH key-based authentication between GitHub Actions and the production VM, enabling secure passwordless automated deployments.
- Authored comprehensive deployment documentation covering Docker, nginx, firewall configuration, and troubleshooting procedures.

Stock Sentiment Tracker | *AWS, Terraform, Boto3, Python, GitHub Actions, Git*

2025

- Architected and co-developed a serverless sentiment analysis platform for stock discussions with a team of four, reducing manual research time for users.
- Programmed AWS Lambda functions using Python (Boto3) to perform sentiment analysis with Amazon Comprehend, optimizing logic to reduce redundant API calls and improve data processing speed.
- Implemented an automated notification system using EventBridge and SNS, delivering daily email alerts to users for their subscribed tickers.
- Authored Infrastructure as Code (IaC) Terraform scripts to provision and manage all cloud infrastructure (EventBridge, Lambda, SNS, IAM), enabling 100% reproducible environments and cutting down deployment time by 90%.

Enterprise Application Project | *MERN Stack, Recharts, Jest*

2024

- Collaborated with a team of four to design and develop a full-stack MERN application to meet specified corporate and departmental business requirements for a simulated enterprise.
- Built and rigorously tested a secure RESTful API using Node.js and Express.js, featuring over 12+ endpoints for full CRUD functionality. Achieved 95% unit test coverage with Jest.
- Developed a responsive React client, enabling users to filter, edit, and visualize data.
- Managed the deployment of the full MERN stack to an Ubuntu server, configuring Apache HTTP Server as a reverse proxy to the Node.js/Express.js backend.
- Integrated and debugged an analytics dashboard with Recharts to provide data-driven insights, visualizing key metrics like sales trends and employee performance which informed strategic decisions in project reviews.

Work Experience

Ivalua | *Customer Application Engineer Intern*

Oct 2025 - Apr 2026

- Provided post-go-live support for the enterprise procurement platform, resolving configuration and data issues across multiple client environments with C#, .NET, and Microsoft SQL Server, which kept system availability high for users
- Diagnosed root causes of production defects using SQL Server Profiler and UI tracing tools, which enabled faster issue resolution and reduced system downtime
- Wrote and validated SQL scripts in pre-production environments, following the change-management process, which ensured error-free production deployments
- Documented technical findings in detailed reports and shared them with consulting partners and internal stakeholders, which helped prioritize fixes and improve team collaboration
- Configured a custom LLM Agent to analyze internal documents and guidelines, used by the RUN team