# Kevin Chen

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## Education

**Rochester Institute of Technology** Rochester, NY
*Bachelor of Science in Software Engineering* *Expected May 2027*

- **Cumulative GPA: 3.18**
- **Dean's List: Spring 2023, Spring 2025**
- **Relevant Courses:** 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, JUnit, Pytest, Unix/Linux.
**Cloud & Infra**: AWS (Lambda, EventBridge, SNS, Comprehend, EC2, S3, CloudWatch, IAM), Terraform, Vercel.
**Other**: Apache HTTP Server, Selenium, JSON, XML, Agile Methodologies, Scrum

## Projects

**Stock Sentiment Tracker** | *AWS, Terraform, Boto3, Python, GitHub Actions, Git* | *Cloud Engineering Course Project* 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%.

**AI Agent Automation System (MCP)** | *Vercel, Google Apps Script, Node.js, TypeScript* | *Personal Project* 2025

- Built a full-stack AI automation pipeline using a custom Model Context Protocol (MCP) server to enable AI agents to interface with structured job tracking data.
- Created MCP tools: 'append_job_row' to insert structured entries into Google Sheets, 'lookup_jobs' to prevent duplicates, and 'daily_application_stats' to return real-time analytics.
- Deployed the MCP server on Vercel and integrated it with Google Apps Script for cloud-based document processing.
- Streamlined multi-agent coordination and decision-making across platforms to eliminate repetitive job tracking tasks.

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