

# Kevin Chen

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## EDUCATION

### Rochester Institute of Technology

*Bachelor of Science in Software Engineering*

Rochester, NY

*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#, SQL, Bash.

**Frontend:** HTML, CSS, React.js, Next.js, Tailwind CSS.

**Backend:** Node.js, Express.js, .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.

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

## PROJECTS

### Stock Sentiment Tracker | AWS (Lambda, EventBridge, SNS, Comprehend), Terraform, Boto3, Python 2025

- Collaborated in a team of four to build a sentiment analysis platform for stock discussions using AWS cloud services.
- Developed AWS Lambda functions using Python and Boto3 to query DynamoDB and analyze stock sentiment with Amazon Comprehend, returning structured scores for frontend display.
- Configured EventBridge rules and Lambda triggers to send daily email alerts via SNS for subscribed watchlist tickers.
- Wrote Terraform code to provision infrastructure (EventBridge, Lambda, SNS, IAM roles), excluding DynamoDB.
- Ensured efficient sentiment analysis by skipping entries with existing scores and conditionally invoking Comprehend.

### Azure Function & CI/CD | Terraform, Azure (Functions, App Service Plan), GitHub Actions, Node.js 2025

- Engineered and deployed Azure Function App infrastructure using Terraform for a Node.js serverless application, managed via Terraform Cloud.
- Implemented a CI/CD pipeline with GitHub Actions for automated infrastructure provisioning and (planned) application deployment.
- Systematically diagnosed and resolved multi-layered deployment blockers related to Azure regional quotas, Terraform provider version incompatibilities, and state management conflicts.
- Successfully provisioned all required Azure resources (Resource Group, Service Plan, Storage Account, Function App) after extensive troubleshooting, achieving a stable deployment.
- Documented complex issue resolution, including analysis of Azure Student account limitations and Terraform best practices for state and provider management.

### Enterprise Application Project | MERN Stack (MongoDB, Express.js, React, Node.js), Recharts 2024

- Built full-stack MERN application with MongoDB REST API, Express.js backend, and React frontend with CRUD operations and Jest testing.
- Deployed on Ubuntu server with Node.js and MongoDB, implementing corporate branding across departmental applications.
- Integrated Recharts dashboard for data analytics including employee breakdowns, sales insights, and cost analysis visualizations.