

Anthony Lieu

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EDUCATION

Rochester Institute of Technology

Bachelor of Science in Software Engineering

GPA: 3.89/4.0

Rochester, NY

Expected May 2027

EXPERIENCE

Software Engineer Co-op

RIT Department of Software Engineering

January 2026 – Present

Rochester, NY

- Collaborating on a self-directed team to design and develop the SCOOP Portal, a web application for managing future co-op programs and facilitating communication between supervisors and students.

Software Engineer in Test Co-op

Excellus BlueCross BlueShield

June 2025 – Aug. 2025

Rochester, NY

- Improved code quality across 6 shared libraries by developing comprehensive JUnit test suites, increasing coverage from 30–40% to 90–100% and ensuring reliability for downstream teams.
- Debugged and resolved critical production issues reported by other engineering teams, including a logging defect that masked error types, improving system observability and troubleshooting efficiency.
- Maintained technical documentation by updating user guides and README files for shared repositories, enabling seamless adoption and integration by new users.

PROJECTS

Say Less | Python, React, Redis, PostgreSQL, AWS

Jan. 2026 – Present

- Built serverless real-time multiplayer game using Python, AWS API Gateway WebSocket API, and Lambda with server-authoritative timers and Redis state management to ensure synchronized gameplay.
- Developed React frontend with microphone audio capture and WebSocket integration, rendering live game state including lobby management, countdown timers, and player scores.
- Provisioned AWS infrastructure using Terraform (API Gateway, Lambda, ElastiCache Redis, RDS PostgreSQL, IAM) and integrated AWS Transcribe Streaming for voice-to-text conversion, storing game results in PostgreSQL.

Intelligent Stock Market News Analyzer | Python, React, MySQL, AWS

Sep. 2025 – Dec. 2025

- Developed Python Lambda functions to fetch real-time news data from Tiingo News API, process sentiment analysis using AWS Comprehend, and store results in RDS database for frontend consumption.
- Built React frontend components to display stock market news and sentiment visualizations, integrating with AWS API Gateway to retrieve and render analysis results for user interaction.
- Developed GitHub Actions workflow to automate Terraform provisioning and teardown of AWS infrastructure, while building and deploying React application to S3 for static website hosting.

U-Fund | Java, Angular, Spring Boot

Aug. 2024 – Nov. 2024

- Facilitated Agile development for 5-person team by managing product backlog, conducting sprint planning sessions, and performing code reviews to ensure code quality and on-time delivery.
- Developed Angular components for donation and volunteer workflows, integrating frontend with backend REST APIs through HTTP services.
- Engineered REST API endpoints using Spring Boot to handle charity postings, donations, and volunteer registration with secure authentication.

TECHNICAL SKILLS

Languages: Java, Python, C, TypeScript/JavaScript, HTML/CSS

Frameworks: Angular, React, Spring Boot, Flask, JUnit, Pytest, Selenium

Databases: PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS, Terraform, Docker, Github Actions

Developer Tools: Git, GitHub, VS Code, Visual Studio, IntelliJ IDEA, Maven, npm, Slack, Trello