

# Anthony Lieu

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## EDUCATION

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**Rochester Institute of Technology**  
*Bachelor of Science in Software Engineering*  
**GPA:** 3.89/4.0

Rochester, NY  
*Expected May 2027*

## EXPERIENCE

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**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

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

Jan. 2026 – Present

- Built Java WebSocket server on AWS EC2 to manage real-time multiplayer lobbies, implementing server-authoritative timers and game state validation to ensure synchronized gameplay and prevent cheating.
- Developed React frontend to capture and stream microphone audio via WebSocket, rendering live game state including lobby management, countdown timers, and player scores.
- Provisioned AWS infrastructure using Terraform (EC2, ElastiCache, IAM) and integrated AWS Transcribe Streaming to convert voice input to text, storing game state in Redis with hash maps and sorted sets.

**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

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**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