

# Adam Rodi

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## EDUCATION

**Southeastern Louisiana University**  
*Bachelor of Science in Computer Science*  
*Minor in Mathematics*

**Hammond, Louisiana**  
*Expected Graduation, May 2027*

- **Concentration:** Data Science
- **Related Coursework:** Data Structures & Algorithms, Software Engineering, Data Mining, Python for Data Science, Computer Architecture, Calculus, Discrete Math
- **GPA:** 4.0/4.0

## EXPERIENCE

**Amazon Web Services**  
*Cloud Support Associate Intern*

**Dallas, Texas**  
*June 2025 – September 2025*

- Resolved distributed systems, Linux, and networking issues in cloud infrastructure environments while improving cloud architectures.
- Built an OpenSearch Troubleshooting Chatbot (Lex V2 + Lambda + OpenSearch + CloudWatch + API Gateway + S3 + CloudFront) automating 9 troubleshooting workflows to reduce time-to-resolution for common issues.
- Designed and deployed a Highly Available Web App architecture networked across 3 Availability Zones using VPC, ALB, EC2, Auto Scaling, and IAM.
- Earned AWS AI Practitioner and AWS Solutions Architect – Associate certifications.

**Louisiana Army National Guard**  
*Motor Transport Operator*

**Slidell, Louisiana**  
*October 2022 – Present*

- Transporting troops and equipment with a 100% on-time delivery rate.
- Managing 57 vehicles/trailers through preventative maintenance.

## PROJECTS

### Real-Time Multiplayer Game & Chat Server (Rust, Axum, Tokio, WebSockets)

- Built a high-performance asynchronous WebSocket server supporting concurrent game updates, stateful game sessions, and in-game chat with real time updates.
- Designed a protocol-based JSON message system, connection lifecycle management, and event-driven concurrency using Rust's async ecosystem.
- Built test clients and simulation tools to verify real-time synchronization under load.

### Fitness & Nutrition Tracker Web App (C#, React, ASP.NET, SQL, Git)

- Built a full-stack web app with a relational database schema, a backend REST API in C# (.NET), and a React frontend.
- Implemented nutrition logging features with dashboard visualizations end to end.

### **Zebrafish Brain Research Project (Python, Pandas, NumPy, Scikit-Learn)**

- Scheduled for presentation at an academic research conference in Spring 2026.
- Preprocessed and normalized image-derived features from zebrafish brain image stacks to prepare for clustering.
- Performed unsupervised clustering to find separable patterns in anesthetic, stimulant, and control groups.
- Evaluated cluster quality using quantitative metrics and visualizations to interpret relationships between treatment conditions and observed brain activity.

### **TECHNICAL SKILLS**

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- **Languages:** Python, C#, Rust, Java, TypeScript/JavaScript, C++
- **Dev Tools/Libraries:** AWS, React, ASP.NET, Git, GitHub, Pandas, NumPy, Scikit-Learn, SQL
- **Systems & Concepts:** Object-Oriented Programming, REST APIs, WebSockets, Data Structures & Algorithms, Linux, Distributed Systems

### **AFFILIATIONS**

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#### **Association of Computing Machinery (ACM)**

*Member*

**Hammond, Louisiana**

*January 2024 – Present*

- Participate in coding challenges and software engineering workshops.
- Served on department advisory board interviewing CS department head candidates.