

# ELIJAH (ELI) PAULMAN

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## EDUCATION

**The Ohio State University**

*B.S. in Computer Science Engineering, Artificial Intelligence Specialization*

**Columbus, OH**

*December 2025*

## EXPERIENCE

### Amazon - Software Development Engineering Intern

May 2025 – August 2025

- Built a scalable full-stack product catalog system managing 15K+ trade-in items with historical data and server-side search.
- Automated catalog generation and ETL workflows with Vue.js, AppSync, and Lambda, reducing manual input by ~60%.
- Owned the full development cycle from design to deployment, delivering a robust, maintainable production system.
- Collaborated with cross-functional teams to align goals and ensure successful system deployment and adoption.

### Engineers for a Sustainable World - President

August 2024 – May 2025

- Led 20+ engineers in hands-on sustainability projects, expanding membership and launching new community initiatives.
- Drove partnerships and funding for innovative solutions including solar-powered and recycling-based systems.

### IBM - Accelerate Fellowship Program

June 2024 – August 2024

- Developed full-stack web apps using JavaScript, React, and Node.js, applying cloud-native best practices and principles.
- Completed projects on data structures, algorithms, and security, strengthening problem-solving and coding proficiency.
- Collaborated with IBM engineers on code reviews and mentorship, gaining hands-on industry experience.

### London Computer Systems - Software Developer Intern

May 2024 – August 2024

- Developed REST APIs using C#/.NET, and SQL to enhance Rent Manager's internal and integration functionality.
- Resolved 20+ bug tickets through systematic debugging, improving stability and reducing customer-reported issues.
- Optimized online booking queries to improve performance and lower memory use, reducing query time by 40%.
- Delivered 7 API tickets for a new leasing center feature, streamlining prospect management and manager workflows.

### London Computer Systems - Software Quality Assurance Intern

May 2023 – August 2023

- Designed and executed 50+ Rent Manager API test plans using Jira with Xray integration and Postman software.
- Developed precise REST API calls to validate endpoints, ensuring 100% accuracy in expected vs. actual JSON data.
- Queried and updated MySQL databases for test validation, improving defect detection efficiency.
- Partnered with developers to resolve 15+ critical defects, reducing overall average bug resolution time.

## PROJECTS

### Repo Rover | *Elasticsearch, LangChain, Flask, Python, Next.js, OpenAI*

- Built a web AI assistant with a RAG pipeline to provide repository code explanations, security scans, and insights.
- Implemented hybrid semantic and keyword search with vector embeddings to generate contextual, cited answers.

### Alumni Social Network | *MERN Stack, Tailwind CSS | Hackathon Winner*

- Built a full-stack networking platform for LMCC with user profiles, opportunity listings, calendar, and dynamic feeds.
- Implemented user auth, profile management, and dynamic content feeds to enhance user engagement and collaboration.

### Tech Learning Platform | *Firebase, Express, React.js, Node.js, Tailwind CSS, Firebase | Hackathon Winner*

- Collaborated with a team to develop a web-based solution with cloud integration aimed at enhancing tech education.
- Implemented key features including user accounts, profile pages, skills assessments, learning paths, additional courses, community event calendar, admin panel for student activity monitoring, and compatibility with mobile devices.

### Trash Route Optimization Platform | *React, MongoDB, ESP32, TOF Sensor, REST API*

- Built an IoT-based waste system with ESP32 sensors and a React dashboard to track dumpster fill levels in real time.
- Developed a MongoDB-backed API to optimize pickup routes, eliminating unnecessary collections and costs.

## TECHNICAL SKILLS

- **Languages & Frameworks:** Java, C#, Python, TypeScript, JavaScript, C, SQL, HTML, CSS, x86 Assembly
- **Tools & Platforms:** AWS (Lambda, AppSync, S3), Git, MySQL, MongoDB, Visual Studio, VS Code, MATLAB
- **Skills:** REST & GraphQL APIs, Machine Learning, Computer Vision, Continuous Integration / Continuous Deployment (CI/CD), Technical Documentation, Backend, Full Stack, Statistics, Agile Development, Test-Driven Development