

ELIJAH (ELI) PAULMAN

(513) 491-6464 | eli.paulman@gmail.com | epaulman.com | linkedin.com/in/elijahpaulman

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 | 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