

Akrm Al-Hakimi

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EDUCATION

Wayne State University

Bachelor's of Science in Computer Science, College of Engineering

Detroit, MI

January 2024 – December 2026

- President of AWS Cloud Computing Club
 - Coordinated certification programs in collaboration with AWS, resulting in multiple students achieving AWS Cloud Practitioner and other foundational certifications.
 - Hosted first ever AWS Hackathon at the University, coordinating with event managers and AWS to supply students with prizes and open their network to potential careers.
 - Directed open-source initiatives through our GitHub organization, scaling project impact and fostering contributions from AWS Club chapters globally.

TECHNICAL SKILLS

Languages: Rust, C++, Go, Java, TypeScript, Python

Databases: PostgreSQL, SQLite, MongoDB

Backend Frameworks and Tools: Node.js, Express.js, REST API's

Developer Tooling and more: Git/GitHub, AWS, Docker, Jenkins, Linux, GitHub Actions, Bash(Scripting and Automation)

EXPERIENCE

Software Engineer Co-Op

Cummins Inc.

February 2025 – Present

Troy, MI

- Engineered Rust and TypeScript internal tooling to automate ECU firmware flashing and bulk test data processing, reducing QA cycles by 120+ hours while improving pipeline throughput for multi-team integration testing.
- Designed and implemented C/C++ drivers for proprietary customer software releases, improving ECU interface stability and reducing integration defects by delivering robust, production-ready low-level software components.
- Developed and maintained Jenkins automated testing pipeline to streamline CI/CD processes, improve test coverage, and reduce deployment time through efficient integration of unit, integration, and regression tests.
- Debugged and re-factored embedded software using C, CANalyzer and vTESTstudio, optimizing overall system load performance.

Data Engineering Co-Op

Cummins Inc.

June 2024 – February 2025

Troy, MI

- Optimized SQL and ETL pipelines for enterprise manufacturing analytics, consolidating multi-terabyte datasets across Oracle/AS400, improving query performance and enabling near real-time dashboards.
- Assisted in the design and scaling of data pipelines to support data visualization and reporting solutions for manufacturing optimization.
- Developed end-to-end data solutions using Python, Qlik Sense, and Power BI to create stakeholder dashboards for key business metrics, including data preparation and ETL pipeline development.

Software Engineer Intern

Insurit Agency

June 2024 – Sept. 2024

Grand Rapids, MI

- Contributed to the architecture and deployment of a full-stack employee portal for client management, internal communication, and collaborative market research using JavaScript and Next.js.
- Built a secure, custom authentication system using JWT, bcrypt, and Next.js middleware, streamlining employee access and reducing login-related support requests by enabling faster, role-based sign-ins.
- Optimized AWS infrastructure for scalability and performance, implementing best practices across EC2, S3, and RDS services, resulting in improved application response times and reduced operational costs.

PROJECTS

Rlox | Rust

June 2025 – Present

- Developed a fully functional language interpreter in Rust, based on concepts from Robert Nystrom's **Crafting Interpreters** (originally implemented in Java).
- Implemented comprehensive error handling covering lexical, parsing, runtime, and compile-time phases.
- Extended the language with additional features including ternary operators, first-class lambda functions, and improved expression parsing (e.g., comma operator precedence).