

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.
 - Planned 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, TypeScript, Python, Go, C++, Java

Backend/APIs: Node.js, Express.js, REST APIs, Microservices Architecture

Databases: PostgreSQL, SQLite, MongoDB

Cloud/DevOps: AWS(EC2, RDS, S3, Lambda), Docker, Jenkins, GitHub Actions, CI/CD Pipelines

Tools: Git/GitHub, Linux, Bash, QEMU, Yocto

EXPERIENCE

Software Engineer Co-Op

February 2025 – Present

Cummins Inc.

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
- 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
- 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
- Collaborated with cross-functional teams to debug and refactor embedded software, optimizing overall system load performance

Software Engineer

October 2025 – Present

Snorkel AI

Redwood City, CA (Remote)

- Engineered CI/CD pipelines and automation tooling for the Terminus project, implementing GitHub Actions workflows for automated testing, result validation, and performance regression detection across agent submissions.
- Developed tooling to operationalize model evaluation at scale, enabling consistent benchmarking across experiments.
- Maintained production evaluation infrastructure as official repository maintainer, reviewing PRs for benchmark correctness, Docker security best practices, and execution environment consistency.

Data Engineering Co-Op

June 2024 – February 2025

Cummins Inc.

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.
- 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

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).
- Engineered memory-efficient data structures, including arena allocation for AST nodes and identifier interning to reduce heap pressure during compilation and execution
- Extended the language with additional features including ternary operators, first-class lambda functions, and improved expression parsing (e.g., comma operator precedence).