

Hishaam Abdul-Muhaimin

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EDUCATION

University of California, Riverside

Graduated: June 2026

Bachelor of Science, Computer Science

- **Relevant Coursework:** Software Construction, Data Structures, Algorithms, Design and Architecture of Computer Systems, Discrete Structures, Probability and Statistics, Artificial Intelligence, Operating Systems

WORK EXPERIENCE

Chevron

June 2024 – September 2024

Software Engineering Intern

Houston, Texas, United States

- Developed infrastructure automation using **Ansible** to provision and deploy services across Linux-based environments, saving **30** engineer-hours per week.
- Built and maintained **CI/CD** automation pipelines to compile and validate internal Java services, reducing infrastructure dependencies and improving deployment reliability.
- Extended internal service **APIs** and tooling to support new data ingestion requirements, improving system interoperability and reliability.

Chevron

June 2023 – September 2023

Software Engineering Intern

Houston, Texas, United States

- Designed and implemented **data validation** frameworks to ensure correctness and reliability of large-scale data ingestion pipelines.
- Collaborated with third-party vendor **Invenco** to integrate self-service payment systems across **8,000** Chevron gas stations, working with internal teams and leveraging **Microsoft Azure** and **Agile** methodologies to ensure seamless deployment.
- Programmed and deployed the validators using **C#** and **Visual Studio**, enhancing reporting capabilities.

Mentor

September 2024 – June 2026

Passing the Torch Mentor

Riverside, California, United States

- Mentor first year engineering students through personalized support, workshops, and academic guidance.

PERSONAL PROJECTS

GPU Image Processing Pipeline

June 2026

- Developed a CUDA-accelerated image processing pipeline in **C++** implementing Gaussian blur and Sobel edge detection with both CPU and GPU implementations
- Designed CUDA kernels using a 16x16 thread-block configuration and benchmarked performance, achieving up to 24x speedup over the CPU implementation

CLI Code Review Agent

July 2025

- Built a modular **C++** command-line static analysis tool that detects long functions, deep nesting, magic numbers, unclear variable names, and missing documentation.

TECHNICAL SKILLS

Languages: C/C++, C#, JavaScript, Assembly, Python

Frameworks and Best Practices: Agile Development, API Management, CI/CD with Azure DevOps Pipelines

Tools: Visual Studio Code, Eclipse, Azure, LC3, Ansible, Git

Operating Systems: Linux, Unix, Windows, MacOS

LEADERSHIP / AWARDS

President — National Society of Black Engineers

September 2024 – June 2026

University of California, Riverside

- Led conferences and events for NSBE members while overseeing Membership and Social Standing committees to improve engagement and retention.

Amazon Audio Technology DEI Scholarship

November 2024