Arahman Gulaid

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PROFESSIONAL SUMMARY

Graduate Software Engineer (May 2026) with a strong foundation in **data structures, algorithms, and backend systems**. Hands-on experience building **distributed backend services**, asynchronous **pipelines**, and production **REST APIs** using **Python**, **C/C++**, **Java**, **Docker**, **and Linux**. Proven ability to **own features end-to-end**, debug complex systems, and collaborate cross-functionally to deliver **reliable, scalable software** in fast-paced environments.

EDUCATION

Bachelor of Science, Computer Science   **May 2026**
The University of Texas at Dallas,   Richardson, TX
Relevant Coursework: **Data Structures & Algorithms**, Operating Systems, Database Systems, Computer Architecture, Machine Learning, Artificial Intelligence

Associate of Science (General Studies — Computer Science Track)   **May 2023**
Collin College,   Plano, TX

WORK EXPERIENCE

Software Engineer (Backend) — Gulaid Park Hotel (Remote)   **Jan 2024 – May 2024**
- Designed and implemented **backend services and REST APIs** supporting reservation, availability, and pricing workflows.
- Built **server-side data ingestion and synchronization pipelines**, reducing manual operational workload by **60%.**
- Developed and maintained **SQL-backed application logic** with emphasis on correctness, data integrity, and reliability.
- Wrote **unit and integration tests**, debugged production issues, and collaborated with stakeholders to deliver maintainable solutions.
- Owned **backend features end-to-end**, from **requirements gathering** and **implementation to testing**, **deployment**, and **post-release debugging**.

PROJECTS

ExpenseOps — Distributed Expense Processing & Compliance Platform
Python, FastAPI, PostgreSQL, Docker, Redis, REST APIs, Linux
- Built a **distributed, asynchronous backend platform** and supporting infrastructure exposing REST APIs to ingest, validate, and process expense data at scale.
- Designed **idempotent ingestion pipelines** using cryptographic hashing and database constraints to prevent duplicate processing.
- Implemented **background workers and message queues** to support high-throughput, fault-tolerant processing.
- Engineered **retry logic, exponential backoff, and replay mechanisms** to improve system reliability under failure conditions.
- Deployed containerized services in a **Linux-based, cloud-ready environment** using Docker.

Designed Experience (RIDE) Program — Software Integration (Academic)
C/C++, CMake, Cross-Functional Engineering
- Engineered and integrated **core software modules** for a distributed UWB-based communication system.
- Developed and tested **C/C++ firmware** on STM32 microcontrollers, implementing SPI, I²C, GPIO, and USART drivers.
- Performed **root-cause analysis and real-time debugging** of interrupt-driven routines, improving system stability by ~20%.
- Built and validated software using **CMake and ARM-GCC**, ensuring repeatable, standards-aligned development.
- Collaborated cross-functionally to translate system requirements into **tested, reliable software improvements**.

SmartLens — Backend Media Processing Services
Python, FastAPI, PostgreSQL, Docker, Redis, Linux
- Designed **backend APIs and service orchestration logic** to ingest media, trigger processing jobs, and return structured results.
- Implemented **logging and basic observability** to monitor service latency, throughput, and reliability.
- Focused on **maintainable service architecture, debugging, and documentation** to support long-term system evolution.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, SQL
Backend & APIs: RESTful API Design, FastAPI, Django
Systems: Linux/Unix, Distributed Systems Concepts, Embedded Systems
Cloud & DevOps: Docker, AWS (EC2, S3), CI/CD, Git/GitHub
Software Engineering: Data Structures & Algorithms, Debugging, Unit & Integration Testing, SDLC, Documentation