

Sharjeel Khan

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SUMMARY

New-grad Software Development Engineer (Graduating **Mar 2026**) with strong CS fundamentals (data structures/algorithms, OOP) and hands-on experience building **web applications** and **SQL-backed services** for a production-style nonprofit CRM. Comfortable shipping in an **agile** environment end-to-end: requirements → design → implementation → testing → CI/CD with GitHub, Docker, and PostgreSQL.

EDUCATION

- **University of Washington - Bothell**
B.S. Computer Science & Software Engineering | GPA: 3.5/4.0 *Graduation: Mar 2026*
- **Masterschool (Online)**
Full-Stack Development Bootcamp *Jan. 2023 – Dec. 2023*

EXPERIENCE

Full-Stack Intern

The Al-Maidah Initiative (Independent Contract) *Dec 2025 – Present*

- **Built and shipped web application features** for a nonprofit CRM in an **agile** workflow, translating stakeholder needs into scoped deliverables and iterating quickly with team feedback.
- **Developed RESTful APIs (TypeScript/Express)** for core People workflows (**create/search/retrieve/update**) with scalable query patterns and clean code composition aligned to basic design principles.
- **Designed and executed PostgreSQL SQL migrations** and implemented **bulk CSV ingestion** to onboard donor/contact data reliably, supporting production-style data management.
- **Implemented secure authentication + role-based access control (RBAC)** using **session/cookie** flows; protected sensitive routes and enabled a smooth login/logout workflow across web + API.
- **Built CSV validation plus dedupe/merge logic** by normalizing identifiers (**case-insensitive email, digits-only phone**) and enforcing uniqueness to improve data integrity and prevent duplicate records.
- **Containerized the dev environment with Docker Compose** and debugged database connectivity/port conflicts; verified health via API endpoints to ensure stable local development.
- **Improved delivery speed and quality** using **Git/GitHub, GitHub Actions CI**, and repeatable developer workflows (branching, reviews/checks) to keep main stable during rapid iteration.

PROJECTS

[SSSS-LIBRARY](#) | Library Management System | C++ | OOP | OOD | Custom BST & Hashing | Valgrind

- Engineered a modular library management system in C++ using OOP to model clients, media, and transactions, improving code reuse and maintainability.
- Implemented a custom binary search tree (BST) to manage clients and a hash table to catalog media, enabling fast lookups ($O(\log n)$ and average $O(1)$ access) without STL containers.
- Ensured memory safety by implementing deep copy semantics, custom destructors, and running Valgrind to memory leaks.

[FLIGHT-DELAY-ML](#) | Flight Delay Prediction Pipeline | Python | pandas | scikit-learn | Evaluation (ROC-AUC, PR-AUC)

- Built an end-to-end ML pipeline on ~900K records: cleaning, feature engineering, training, and evaluation.
- Compared Logistic Regression, Random Forest, and Gradient Boosting using cross-validation; documented results with metrics and interpretability analysis.

[Movie Web App](#) | Movie Management Application | Flask | JavaScript | HTML/CSS | SQL

- Developed a full-stack web application with a Flask backend and SQL database to manage movie records.
- Designed REST-style routes and SQL queries to handle movie CRUD operations, input validation, and error handling, demonstrating full request lifecycle from UI to database.
- Implemented an interactive frontend using HTML, CSS, and JavaScript, including dynamic forms and table views for browsing, searching, and filtering movies.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript/TypeScript, HTML, CSS

Web/Backend: React, Node.js, Flask, REST APIs

Databases: PostgreSQL, SQL, Prisma

Developer Tools: Git/GitHub, Docker/Docker Compose, CI (GitHub Actions), Debugging

CS Fundamentals: Data Structures, Algorithms, OOP/OOD, Operating Systems

Testing/Process: Unit/Functional Testing, Agile/Scrum, SDLC, Code Review