Salim Moshe

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SUMMARY

I am a dedicated Computer Science student at the University of Washington's Paul G. Allen School of CSE, focused on software engineering, systems programming, and database-driven applications. With strong skills in Java, C/C++, Python, and Flutter, I have worked on projects that demonstrate my experience in AI integration, multithreaded systems, and secure database applications. I am passionate about building scalable, impactful software and applying artificial intelligence and machine learning to solve real-world problems.

EDUCATION

University of Washington, Paul G. Allen School of CSE, Seattle, WA

Senior, Bachelor's degree in Computer Science (Data Science Option) *Class of 2026 (Expected: 2026)*

GPA: 3.89 — Dean's List — Academic Excellence Scholarship

Relevant Courses: Algorithms, Data Structures & Parallelism, Software Design and Implementation, Interaction Programming, Machine Learning, Systems Programming, Introduction to Data Management

Bellevue College, Bellevue, WA *Jul 2022 – Dec 2023*

Associate in Arts and Science (**GPA:** 3.98)

Relevant Courses: Introduction to Java Programming, Introduction to C# Programming

SKILLS

Programming Languages: Java, Python, C#, C, C++, Dart, JavaScript, TypeScript, SQL, HTML
Databases: SQLite, Firebase (Realtime Database / Firestore)
Development Environments: IntelliJ, Eclipse, VS Code, Pycharm
Libraries & Frameworks: Flutter, React, NumPy, PyTorch, JDBC
Runtime Environment & Other tools: Linux, Node.js, Git, Firebase, LaTeX, Tableau, Vega-Lite, JSON
Soft Skills: Teamwork, Communication, Detail-Oriented, Organized, and Efficient

PROJECTS

File System Search Engine with Web Server *Jul 2025 – Aug 2025*

University of Washington – Systems Programming Project — C, C++, Git

- Developed a console-based search engine in C using POSIX I/O, linked lists, and hash tables to crawl directories, parse files, and build an in-memory inverted index.
- Created a query processor to handle multi-word searches, rank results by frequency, and display relevant documents.
- Extended with a multithreaded C++ web server (hosted on attu for testing) that handled client HTTP queries and returned results in a browser with links to matching files.
- Patched security vulnerabilities including cross-site scripting (XSS) and directory traversal; validated correctness with unit testing and Valgrind.

Vaccine Appointment Reservation System *Jul 2025*

University of Washington – Data Management Project — Java, SQLite, JDBC, SQL

- Built a command-line scheduling system enabling patients to register, log in, search availability, reserve, and cancel vaccine appointments with caregivers.
- Designed and implemented a normalized relational database schema in SQLite based on an E/R diagram.
- Utilized Java and JDBC for secure login, appointment management, and vaccine inventory tracking.
- Implemented secure password storage using salted hashing (PBKDF2), following best practices for authentication.
- Incorporated input validation and error handling to ensure robustness and user-friendly interactions.

DawgDealz Marketplace App *Nov 2024 – Dec 2024*

University of Washington Final Project — Flutter, Dart, Firebase, JSON

- Collaborated in a team to develop a marketplace app using Flutter and Dart, with Firebase for authentication, data storage, and image hosting.
- Implemented camera/gallery integration to capture/upload images to Firebase Storage and store item details in Firebase Database.
- Developed functionality to fetch and display uploaded items on the homepage, as well as enable users to view and delete their own listings.
- Integrated Google Gemini API to automatically generate item descriptions from item names if the seller opted not to write one.