

Abdulahman M Elmi

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EDUCATION

University of Washington

Mar 2028

Bachelor of Science, Computer Science and Systems

- **Coursework:** Object Oriented Programming, Discrete Math, Machine Organization, Programming Practicum, Computer Architecture, Data Structures & Algorithms, Advanced Algorithms, Database System Design(SQL, Google Cloud Platform)

SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, Python, C++
- **Tools and Technologies:** VS Code, IntelliJ, Git, GitHub, HTML, CSS, Bootstrap, React, Node.js, Next.js, Docker, SQL, Firebase, Jira
- **Methodologies & Design:** Software Development Life Cycle, API Design, System Design, Information Security, Application Deployment, AI-Assisted Development, Data Persistence
- **Soft Skills:** Communication, Team Work, Problem-Solving, Fast-Learner, Critical Thinking, Leadership, Adaptability

PROFESSIONAL EXPERIENCE

Adobe

Jun 2026 - Sep 2026

Software Engineering Intern

Seattle, WA

- Enabled faster shipping of **Universal Sharing Component** to a user base of **75M+** by creating an **MCP** server that **reduced** development friction across **10+** teams
- Reduced **USC** partner integration **onboarding** time by **95%** by building a local **AI-powered MCP** server using **TypeScript** that generates validated config, boilerplate code, and a live component preview directly from a natural language conversation in **Claude**
- Improved developer **tool** recommendation **relevance** by building an in-memory **RAG** index over **15+ Storybook story files**, enabling **semantic** content matching and replacing a keyword-only search that matched on titles alone
- Empowered partner **engineering** teams to self-serve **USC** mock by shipping a **guided agent** with a **Cursor Skill-driven** playbook and persistent session state
- **Accelerated sprint delivery** and cut production regression defects by **10%** by managing a prioritized **Jira** product backlog in **Scrum** sprints and writing comprehensive unit and integration tests using **Jest**
- Demonstrated **fluency** with **AI-assisted developer tools**, leveraging **Claude** to accelerate debugging, documentation, and code exploration, boosting **productivity** and enabling rapid learning of complex codebases and frameworks.

Tech Tykes

Jun 2025 - Sep 2025

Software Engineering Intern

- Built and deployed Game Genie, an **AI-powered educational adaptive word game** using React, Tailwind, Node.js, Firebase, and **OpenAI GPT**, boosting engagement for 4th-8th graders by delivering personalized vocabulary practice with real-time hints, definitions, and quizzes, following software engineering best practices.
- Implemented adaptive gameplay mechanics with **OpenAI and Firebase Firestore** to dynamically adjust word difficulty, topics, and feedback based on player accuracy, time, and streaks, increasing retention and learning depth across sessions.
- Built and deployed Math Match, an **AI powered educational adaptive game** where players pair numbers using math operations to reach OpenAI-generated targets, with difficulty and operations adjusting by level and player performance - boosting math mastery for 4th-8th graders by 30%.
- **Collaborated with a Figma designer in Agile sprints** to deliver accessible, child-friendly **UIs**, improving frontend look and aligning gameplay with learning goals while balancing performance with UX.

Computing for All

Jun 2024 - Sep 2024

Software Engineering Intern

- Designed and built the **frontend for two core pages** of a volunteer management portal using **JavaScript React, CSS, and Figma**, improving usability and mobile responsiveness for **100+** active users.
- Developed well-designed **backend** APIs using Node.js, Express, and MongoDB, applying **API** design principles to enable secure **end-to-end** data storage and retrieval for volunteers and organizations.
- Used **Git/GitHub** version control to collaborate with other developers, reducing code conflicts

TechStartupClub

Feb 2025 - Jun 2025

Full Stack Lead Developer

- Led the design and **development** of a scalable peer-to-peer marketplace using **React, TypeScript, PostgreSQL**, and Dockerized services, aligning with cloud-native principles
- Practiced Ownership and **Mentorship** by guiding **3** developers through **Git** workflows, code **reviews**, and best practices in TypeScript and **API** design.

PROJECTS

EmergencyReporting <https://abdulahmanelmi.com/project/emergency-spotter>

May 2025

- **Designed** a **BCNF-normalized** relational database schema (ER diagrams, constraints) **to ensure** data integrity and eliminate redundancy in an emergency reporting system.
- Developed **6 SQL queries** using JOINs, subqueries, aggregates, and GROUP BY **to enable** efficient filtering of emergency data by user, date, location, and incident type.
- Implemented transactional **SQL** with validation and rollback logic **to enforce** referential integrity and business rules under failure scenarios.
- **Integrated** Google Maps and browser geolocation APIs **to visualize** real-time emergency locations on an interactive map for civilians and first responders.
- **Collaborated in a 4-person Agile team**, delivering under deadline while maintaining teamwork and communication

LinkedInsight <https://abdulahmanelmi.com/project/linkedin-insight>

May 2025

- Built an **AI-driven learning roadmap** platform using **Python, FastAPI, and OpenAI APIs** to analyze user skills and generate personalized **4-week** upskilling plans
- Designed a **NetworkX-based skills graph** to identify prerequisites and detect skill gaps, enabling **accurate**, structured learning paths.