

Muhammad Faks

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EDUCATION

Oregon State University

Master of Science in Computer Science

Corvallis, OR

Expected June 2026

Oregon State University

Bachelor of Science in Computer Science

Corvallis, OR

Expected June 2025

Coursework: Algorithms, Database Management, Full-Stack Development, Object-Oriented Programming

PROFESSIONAL EXPERIENCE

Student Software Developer

April 2023 – Present

Center for Applied Systems and Software, Oregon State University

Corvallis, OR

- Implement a server-side REST API with ASP.NET and C# to enhance state management and collaboration among user profiles, optimizing faculty load allocation and course planning.
- Develop a dynamic web application using TypeScript, React, Redux, and Material UI components, delivering user-friendly interfaces tailored 100+ university faculty and administrators.
- Architect a Microsoft SQL Server database to efficiently manage 10,000+ faculty load assignments.
- Utilize Tableau Prep and Desktop to clean and analyze data from an Amazon Redshift data source with 750,000+ records, generating visualizations to optimize university scheduling decisions.
- Collaborate with a cross-functional team of 10 students, architects, managers, and analysts using Agile, DevOps, and Git to streamline project deployment, while also mentoring new team members joining the project.

PROJECTS

QueryCorner | *TypeScript, React, Clerk, Convex, Next.js, OpenAI TE-3-S model, Tailwind CSS*

- Developed a prompt-sharing platform, improving AI workflow speed by 60% with Large Language Models.
- Utilized OpenAI's TE-3-S model and Convex's vector search to enhance semantic similarity of 100,000+ prompts.
- Implemented a user-friendly interface with React Tailwind CSS, integrating account settings via Clerk OAuth.

EventHub | *Kotlin, SQLite, Google Maps SDK, Yelp API, Android Studio*

- Developed an event discovery app empowering Android users to connect with their local communities.
- Implemented a SQLite relational database to support scalability for 500+ Yelp events per user-specified location.
- Utilized the Google Maps SDK to offer interactive event location visualization and improve user engagement.

TalentTracker | *JavaScript, PHP, HTML/CSS, Node.js, Express.js, Handlebars, MySQL*

- Designed a scalable relational database using PHP and MySQL for efficient company employee data management.
- Implemented a dynamic web application connected to a REST API for data visualization and analysis.
- Optimized data oversight by integrating create, remove, update, and delete operations into the user interface.

LEADERSHIP EXPERIENCE

Vice President

May 2023 – Present

Society of Asian Scientists and Engineers, Oregon State University

Corvallis, OR

- Promote diversity, innovation, and ethical leadership principles through 20+ events for 60+ active members.
- Orchestrate and lead the inaugural Big-Little mentorship program, personally mentoring 8 first and second-year computer science students to support their academic and professional development.

Executive Vice President

Feb 2023 – Present

College of Engineering Student Council, Oregon State University

Corvallis, OR

- Lead cooperative initiatives such as the inaugural freshman leadership council, regional conferences, spirit weeks, and awards ceremonies to foster community among 75+ clubs and 10,000+ students.
- Collaborate with College of Engineering faculty and leadership to formulate policies benefiting students.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, SQL, JavaScript, TypeScript, HTML/CSS, Kotlin, PHP

Developer Technologies: React, Node.js, Express.js, GraphQL, Redux, ASP.NET MVC, Convex, Next.js, RabbitMQ

Data Technologies: Microsoft SQL Server, MongoDB, MySQL, SQLite, Tableau, Jupyter Notebook, Microsoft Excel

Developer Tools: Git, GitHub, CI/CD, Cypress, Jest, Figma, Azure DevOps, LaTeX