

Muhammad Faks

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EDUCATION

Oregon State University <i>Master of Science in Computer Science</i>	Corvallis, OR <i>Expected June 2026</i>
Oregon State University <i>Bachelor of Science in Computer Science</i> <i>GPA: 3.95; Dean's List: Fall 2021 - Present</i>	Corvallis, OR <i>Expected June 2025</i>
Coursework: Machine Learning, Databases, Full-Stack Development, Object-Oriented Programming	

PROFESSIONAL EXPERIENCE

Data Analyst Intern <i>Daimler Truck North America</i>	June 2024 – Present <i>Gastonia, NC</i>
<ul style="list-style-type: none">Analyze company data warehouse leveraging Python, Jupyter Notebooks, and Google Colab to develop predictive models for case studies assessing manufacturing equipment performance.Create data visualizations with Matplotlib, Seaborn, and PowerBI to present key insights to business leaders, enhancing decision-making and operational efficiency.	
Student Software Developer <i>Center for Applied Systems and Software, Oregon State University</i>	April 2023 – June 2024 <i>Corvallis, OR</i>
<ul style="list-style-type: none">Implemented 8 REST APIs using ASP.NET and C# to optimize backend infrastructure and performance.Architected a scalable Microsoft SQL Server database to efficiently manage 500+ load assignments for end-users.Utilized Tableau to clean and analyze 750,000+ course registration records from an Amazon Redshift data source and create visualizations to optimize university scheduling decisions.Designed tailored web interfaces with React and Typescript to 2,000+ university faculty and administrators.	

RESEARCH EXPERIENCE

Machine Learning Undergraduate Researcher <i>Foundations of Data Centric Systems Lab, Oregon State University</i>	April 2024 – Present <i>Corvallis, OR</i>
<ul style="list-style-type: none">Develop online learning models to optimize the speed and accuracy of database query algorithms by up to 40%.Utilize PostgreSQL and TPC-H benchmarks to conduct evaluations analyzing the impacts of memory allocation and reward measurement on algorithm performance.Effectively communicate findings to professors and lab members, with ongoing efforts to publish in ACM-SIGMOD.	

PROJECTS

QueryCorner TypeScript, React, Clerk OAuth, Convex, Next.js
<ul style="list-style-type: none">Developed a prompt-sharing platform to improve AI workflow speed with Large Language Models by +70%.Utilized OpenAI's TE-3-S model and Convex's vector search to analyze semantic similarity of 100,000+ prompts.Designed a user-friendly interface (React/Tailwind/shadcn), integrating secure account settings via Clerk OAuth.

LEADERSHIP EXPERIENCE

Vice President <i>Society of Asian Scientists and Engineers, Oregon State University</i>	May 2023 – Present <i>Corvallis, OR</i>
<ul style="list-style-type: none">Orchestrate the inaugural Big-Little mentorship program, personally mentoring 8 first and second-year students.Promote diversity, innovation, and ethical leadership principles through 20+ events for 60+ active members.	
Executive Vice President <i>College of Engineering Student Council, Oregon State University</i>	Feb 2023 – Present <i>Corvallis, OR</i>
<ul style="list-style-type: none">Collaborate with College of Engineering leadership to formulate policies benefiting 10,000+ engineering students.Lead the freshman leadership council while orchestrating regional conferences, spirit weeks, and awards ceremonies.	

TECHNICAL SKILLS

Languages: Python, SQL, C/C++, C#, JavaScript, TypeScript
Machine Learning Libraries: PyTorch, TensorFlow, NumPy, pandas, Scikit-learn
Frameworks: React, Node.js, Express.js, ASP.NET MVC
Data Technologies: MySQL, MongoDB, Microsoft SQL Server, Tableau, PowerBI, Jupyter Notebook, Google Colab
Tools: Docker, RabbitMQ, Kubernetes, Google Cloud Platform, Git, CI/CD, Scrum, Microsoft Office Suite