Sohrab Osmany

Seattle, WA - sohrab {at} cs.washington.edu - linkedin.com/in/sohrab-osmany

Education

University of Washington - Seattle Campus

Expected Jun 2025

Bachelor of Science in Computer Science - (3.6 / 4.0)

Seattle, Washington

Relevant Coursework: Distributed System, Data Structures, Algorithms Analysis, Database Management, Machine Learning, Research, Probability & Statistics, Parallelism, Computer Architecture

Skills

Languages (Proficiency): Java, JavaScript, Scala, SQL, CSS, HTML, Python, PHP, C++, C

Skills: Spring-Boot, Scala, JUnit, GraphQL, AI Prompt Engineering, Ajax, Bootstrap, jQuery, PyTorch, Linux

Tools: Git, Dynatrace, Datadog, AWS Lambda, Splunk, ChatGPT, Claude, Terraform, Bootstrap

Experience

Software Engineer Intern

Jun 2024 - Dec 2024

Chewy

Bellevue, Washington

- Engineered, tested, and launched personalized Frequency Recommendation feature using Java, Spring-Boot, Terraform, Scala, GraphQL, Gradle, and Amazon AWS Lambda reducing Autoship cancellations by approximately 15.5K customers weekly, with overall entitlement of 25.8M per year.
- Created and migrated over **28 dashboards and alerts** from **Splunk** to **Dynatrace**, saving the company over **\$8M** per year, increased application performance monitoring, and improved system visibility and incident response times.
- Led the **peek preparation** and **resiliency** test for Autoship **main service** and successfully conducted **performance testing** using **Scala**, **Kafka** and **Datadog** in preparation for **10x** more traffic.

Undergrad Computer Science Research Assistant - Vector Database

Jan 2024 - Dec 2024

University of Washington

Seattle, Washington

- Developed high-performance algorithms for **Approximate k-nearest Neighbors (ANNs)** in vector databases, improving performance and scalability, resulting in a **7**% increase in user engagement.
- Implemented innovative **Hierarchical Navigable Small World** algorithm-based solutions for dynamic update and retrieval of ANNs, improving the **efficiency** and **accuracy** of search functionality in LLM applications and AI.

Program Coordinator

Dec 2021 - Jan 2023

Shoreline Community College

Shoreline, Washington

• Automated and deployed data management system for 500+ student records quarterly; implemented automated API and streamlined enrollment processes, resulting in 340% increased efficiency in administrative workflows.

Software Engineer and Database Developer

Jan 2019 - Feb 2020

Herat Host IT Services

Herat, Afghanistan

- Engineered and created **over eight** software and managed **over 13** new systems/products using a diverse tech stack including Java, **JavaScript**, PHP, **SQL**, Git, Ajax, Bootstrap, HTML, and CSS.
- Collaborated with a team of five members to construct a **database system** for the **U.S. military's** healthcare services, successfully delivering a specialized product to the **American Army**, and saving over **\$5M** for the Army.

Projects

MatchHub - Soccer | MatchHub-Soccer.git

Dec 2024 - Present

• Built a full-stack soccer match tracking app using Java, Spring Boot, Gradle, JavaScript, React, and MySQL, featuring real-time updates with WebSockets for live scores, lineups, and standings, improving tracking efficiency by over 70%.

${\bf AI\ Model\ -\ Image\ Classification}\ |\ {\it Image-Classification-Model.git}$

Jan 2024 – Mar 2024

• Designed CIFAR-10 Image Classification using PyTorch and deep learning models. Developed convolutional neural networks with over 70% accuracy. Develop hyper-parameter tuning techniques, such as random search to enhance high model accuracy. Skills in building and optimizing models and applying theoretical concepts to solve real-world problems.

Portfolio | Portfolio.git

Sep 2023 - Oct 2023

• Developed personal portfolio software with MySQL and **PHP** for back-end operations, Bootstrap, HTML, and CSS for front-end design; completed the project in 8 weeks while enhancing user experience by increasing load speed by **30**%.