

HAADI RAZZAK

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EDUCATION

University of Southern California

May 2021-May 2025

Bachelor of Computer Science

Relevant Coursework: Data Structures, Operating Systems, Introduction to Machine Learning, Introduction to Computer Systems, Linear Algebra and Differential Equations, Multivariable Calculus

EXPERIENCE

BMC Software

May 2024-August 2024

Machine Learning Engineer Intern, Santa Clara, California

- Engaged in a project leveraging Generative AI to enhance Kubernetes configuration based on historical user data and metrics such as server response time, CPU usage, and container health status
- Utilized Google's Time Series Foundation Model for time-series forecasting, achieving an accuracy rate of 85% in predicting optimal configuration settings

PayPal

May 2022-August 2022 & May 2023-August 2023

Software Integration Engineering Intern, San Jose, California

- Developed a system that enables seamless payment integrations for high profiled merchants serving 100+ million users, using Braintree SDK for node.js integration and adjusting to fit merchant's frontend integration
 - Rendered valuable assistance to over 20 merchants in effectively debugging checkout and customization errors, ensuring a consistently smooth and user-friendly payment experience
 - Enhanced the SDK's functionality, resulting in improved documentation by 10%, allowing for a more robust integration process
 - Implemented a comprehensive checkout system utilizing BrainTree and PayPal, enabling merchants to fine-tune their website's checkout experience with all available customization options
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PROJECTS

Resumate

March 2024

- Engineered an AI-powered project utilizing LLama 3 to generate and customize resumes specifically for software engineers
- Developed a comprehensive full-stack website and interactive dashboard, achieved a 73% user satisfaction rate

Optimized Malloc Memory Allocator Design

March 2023

- Developed a custom dynamic storage allocator in C, meticulously crafting malloc, free, and realloc functions to closely mimic and surpass the performance of standard C library counterparts
- Achieved a space utilization rate exceeding 95% and reached throughput performance within 90% of libc's malloc, demonstrating a balance between efficient memory use and processing speed in trace-driven evaluations

NBA MVP Predictor

March 2023

- Developed a Machine Learning project using Pytorch to predict future NBA MVP using website scraping to extract data from the NBA website, spanning a historical dataset of up to 60 years
- Trained and improved a model and employed RandomForestRegressor to significantly enhance prediction accuracy by 25%

AVL Tree Implementation and Optimization in C++

November 2022

- Designed and implemented an AVL tree data structure, ensuring optimal balance and efficiency in operations such as insertion and removal, ensuring logarithmic operation times and maintaining tree balance for efficient data handling
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LEADERSHIP

TroyLabs - Startup Accelerator

January 2024 - Present

- Selected from over 400 applicants to join an elite cohort of 24 students, partnered w/ Google, AWS, Robinhood, and Tinder
- Contributed to Hatchet (hyperlinked), which provides critical support to firefighters through an app and hardware solution

President & Founder, Muslim Tech Collaborative

May 2023 - Present

- Established a 20-member community to foster Muslim excellence in technology, developing cohorts of students for community-supportive tech projects
 - Spearheaded networking events with speakers from Meta, Google, and PayPal, enhancing professional development
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TECHNICAL SKILLS

- Languages:** C++, C, Python, Pytorch, Tensorflow, Node.js, HTML/CSS, React, JavaScript, Next.js
- Technical:** User Experience/Interaction, Google Colab, Microsoft Azure, Github, Visual Studio Code, Eclipse, MongoDB