

HARIS TARIQ

+1 (530) 863-9947 | haristariq@berkeley.edu | Berkeley, CA, USA | linkedin.com/in/haris-tariq/

EDUCATION

University of California - Berkeley

December 2024

Bachelor's, Computer Science

- Data Structures, Discrete Mathematics, Electronic Systems Design, User Interface Design, Operating Systems, Internet Architecture, Database Systems, Artificial Intelligence, Algorithms

SKILLS

Languages: Java, JavaScript, Python, C/C++, SQL, TypeScript, HTML/CSS, Node.js, iOS/Swift

Framework/Technologies: React, React Native, Django, AWS, Lambda, DynamoDB, Redshift, Microsoft Azure, Flask, Git, D3.js, FastAPI, Vue.js, Tensorflow, Express.js, JUnit, Pytorch, Ruby

Databases: MySQL, Postgres, MongoDB, Firebase

PROFESSIONAL EXPERIENCE

Amazon Web Services

Santa Clara, CA, USA

Machine Learning Infra Engineering Intern

May 2024 - August 2024

- Contributed to the Core ML team by developing a solution update workflow, enabling modifications to automatically trained recommendation models, which maintained model relevance, increased revenue and saved resources
- Automated the detection and processing of model update requests using AWS services, ensuring efficient updates for personalized recommendation models by leveraging AWS Lambda, DynamoDB, Step Functions, and EventBridge
- Optimized the development environment by enabling concurrent testing and training of machine learning models, significantly improving team productivity and reducing development time

UC Berkeley Unmanned Lab

Berkeley, CA, USA

Undergraduate Researcher

June 2023 - September 2023

- Enhanced vertiport simulation system's accuracy by 28% using advanced Python scripting and AWS cloud integration, leading to more reliable transportation models and data integrity
- Developed a real-time passenger movement visualization tool in JavaScript and D3.js, enhancing UI/UX and strategic decision-making, resulting in a 12% boost in successful simulations
- Streamlined performance metrics through detailed simulation modeling using MATLAB and Simulink

BreadFeast

Berkeley, CA, USA

Software Engineer Intern

May 2022 - August 2022

- Optimized AWS data pipelines using Python and Amazon Redshift for handling 1TB monthly data, resulting in a 15% cost reduction and enhanced data processing efficiency
- Revitalized company website using React JS, AWS Lambda, and REST APIs, leading to a 30% increase in performance and reduced load times by integrating efficient front-end frameworks
- Implemented interactive data visualizations with React-Vis, enhancing user engagement by 25%

PROJECTS

Google Summer of Code — Zulip

Student Developer - Python

- Enhanced Zulip's notification settings using Python, Django, and JavaScript, leading to a 15% reduction in user-reported issues and a more intuitive notification management system, positively reviewed by the community
- Architected innovative features for topic unmuting and following in JavaScript, contributing to a 10% increase in user engagement and a more dynamic interaction within community forums

Amour AI - [Link to project](#)

Full Stack Developer - React Expo

- Created the front-end in React Native for Amour AI, integrating TensorFlow for machine learning-driven restaurant matchmaking, and Firebase for user authentication
- Implemented API integrations for real-time data synchronization using Node.js and Express.js, enhancing app functionality and user experience

LEADERSHIP/ORGANIZATIONS

- CodePath - UC Berkeley Chapter | Founder** Aug 2020 – Present
 - Launched free coding courses at UC Berkeley, engaging over 50 non-CS majors and promoting tech literacy
 - Directed Swift, GitHub, and iOS app development courses, achieving a 100% course completion rate
 - Increased non-tech student enrollment in CS courses by 75%, enhancing diversity in tech education
- ColorStack | Fellow**