

Mo ALJUBOORI

Portfolio | 813-842-2813 | Mokhalad@berkeley.edu | LinkedIn.com | Github.com

EDUCATION

University of California Berkeley

Berkeley, CA

Bachelor of Arts in Computer Science & Minor in Data Science

Aug. 2022 – June 2024

Coursework (3.9 GPA) Data Structures and Algorithms, Computer Architecture/Assembly, Database Systems
Object Oriented Programming, Computer Security, Web Design, Computer Networking
Principles and Techniques of Data Science.

Teaching Experience Data 8 Academic Intern, Calculus I Head TA

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Swift, Go, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

EXPERIENCE

Undergraduate Research Assistant

Mar 2023 – Aug 2023

Berkeley Nano Technology Lab

Berkeley, CA

- Worked on the software team in a URAP, led by Dr. Khalid. I performed data collection and manipulation on the website used to visualize experiments ran on boards.
- Created a molecule database for the team that contains features of molecules like DNA Length.

Software Engineer Intern

Mar 2023 – Aug 2023

Ai.vocate

Berkeley, CA

- Collaborated closely with a team of engineers to design and build the entire iOS mobile application from scratch, ensuring a seamless and intuitive user experience.
- Utilized Swift programming language and iOS development frameworks to create robust and scalable features for the app. Integrated AI algorithms and natural language processing techniques to deliver accurate and reliable legal advice to users.

Software Engineer Intern

Jun 2021 – Aug 2021

Birdeye Inc.

Palo Alto, CA

- Recreated and improved the company website using HTML, CSS, JavaScript, and strapi.io resulting in a 50% decrease in page loading time and a 20
- Promoted to team leader by supervisor, and delegated positions by assessing the strengths of each member and supported them in their roles by helping in resolving any coding issues that we encountered.

PROJECTS

Spam Email Detection

Repo

- Developed an Email Spam Classifier using a real-world dataset of 8,348 emails, achieving over 96% accuracy on both training and test sets using logistic regression.
- Implemented rigorous Feature Engineering, which included analyzing high-frequency words, leveraging chi-squared scores for word significance, and detecting email reply patterns to optimize model performance.
- Utilized advanced Data Analysis techniques, like heatmaps for feature correlation and ROC curves for threshold optimization, to ensure model robustness against false positives.

dotPrompt

Repo

- Created a templating engine in Python that is suited specifically for Generative AI prompts to allow prompt re-use and sharing.
- Built a preprocessor using regexes and Python module Re to scan template text to understand the difference between static text and dynamic parameters.
- Implemented a front-end template editor in Flask, HTML, and CSS to encourage users to engage with the template engine and easily create their own templates.

Scheme Interpreter

Repo

- Developed a Scheme interpreter in Python to execute Scheme programs.
- Implemented lexical scoping, first-class functions, a macro system, and error handling.
- Optimized the interpreter by implementing various optimizations such as tail recursion.

K-NN Movie Classifier

Repo

- Developed a K-Nearest Neighbor (KNN) movie classifier model to accurately classify movies based on their genres.
- Utilized Python to process, clean, and apply feature engineering to a movie dataset.