Mo Aljuboori

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Education

University of California Berkeley *Berkeley, CA*
Bachelor of Arts in Computer Science & Minor in Data Science — GPA 3.9 of 4.0 *Aug. 2022 – June 2024*
Coursework *Data Structures and Algorithms, Computer Architecture/Assembly, Database Systems Object-Oriented Programming. Computer Security, Web Design, Computer Networking Princples and Techniques of Data Science, Statistics, Machine Learning, Numerical Optimization*

Teaching Experience: *Calculus I Head TA, Data Science Academic Intern (Data 8)*

Technical Skills

Languages: Java, Python, C/C++, Swift, Go, SQL (Postgres), JavaScript, HTML/CSS, R, matlab
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Experience

Software Engineering Intern *Mar 2023 – Aug 2023*
Ai.vocate *Berkeley, CA*

- Collaborated closley with a team of engineers to design and develop an iOS mobile application from the ground up, to assist new immigrants with filling out legal forms, and 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.

Undergraduate Research Assistant *Mar 2023 – Aug 2023*
Berkeley Nano Technology Lab *Berkeley, CA*

- Developed a molecule database detailing features of DNA, which played a pivotal role in a biosensing project led by CEO of Jadoo Technologies.

Software Engineer Intern *Jun 2021 – Aug 2021*
Birdeye Inc. *Palo Alto, CA*

- Constructed a replica of BirdEye's website with a team of engineers from UCB and UCLA as a foundational project to hone skills in JavaScript, HTML, and CSS, demonstrating a strong initiative and eagerness to learn.

Projects

RookieDB Implementation

- Engineered a comprehensive database system called RookieDB for a specialized database class, focusing on executing simple transactions in series.
- Enhanced system functionality by adding B+ tree indexing mechanism, implementing multiple join algorithms, introducing a query optimizer, and designing a multigranularity locking system.

Secure File Sharing System

- Designed a system in Go for secure file storage and sharing with authentication and password verification mechanisms, ensuring data integrity, authenticity, and user privacy.
- Integrated advanced file management functions, including storing, loading, and controlled file sharing through invitations and access revocation.

dotPrompt *Repo*

- Co-founded dotPrompt in a hackathon, a Python-based templating solution tailored for Generative AI prompts.
- Implemented a front-end template editor in Flask, HTML, and CSS to encourage users to engage with the text editor engine and easily create their own templates.

Spam Email Detection

- Devised a logistic regression model on 8,348 emails, achieving 96% accuracy.
- Employed advanced feature engineering techniques and optimized against false positives using ROC curves.

Scheme Interpreter

- Created a Scheme interpreter with advanced features including lambda and named procedures.
- Improved efficiency through tail recursion and handled complex logical forms.