Vaishak Krishna

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Education

University of California, Berkeley (GPA: 3.9/4.0)   **Aug. 2020 − Present**

In progress: Bachelor of Arts in Computer Science   *Berkeley, California*

Honors: Dean's list, Upsilon Pi Epsilon CS Honor Society.

Relevant Coursework

- Data Structures
- Discrete Mathematics and Probability
- Structure and Interpretation of Computer Programs
- Algorithms and Intractable Problems
- Computer Architecture
- Designing Information Devices and Systems
- Operating Systems
- Foundations of Data Science
- Computer Security
- In Progress: Intro Machine Learning
- In Progress: Principles/Techniques of Data Science

Experience

XLNC   **May 2023 − August 2023**

Software + AI Engineer Intern   *Remote*

- **Developed** a web interface Chatbot with **vector embedding** and **advanced prompt engineering** methods.
- **Created Software Infrastructure** on the cloud for extensive psychometric analysis of Large Language Models.
- **Leveraged many Large Language models** to create and analyze various scenarios for effective persuasive coaching.

FavorX   **March 2023 − June 2023**

Backend Software Engineer   *Remote*

- **Developed and maintained API endpoints** using MongoDB and Express for a scalable and reliable backend.
- **Collaborated** with cross-functional teams to integrate new features into the API for faster time-to-market.

QBurst   **June 2021 − August 2021**

Backend Software Engineer Intern   *Remote*

- **Worked on a microservice** using the .NET framework to store lead data from various sources.
- **Engineered part of the API** for an internal tool to securely access customer lead data in a SQL database.
- **Worked with various dev teams** to integrate the API into an application and increase ad deployment efficiency.

Extracurricular

Computer Science Mentors (UC Berkeley)   **January - May 2022/2023**

Mentor   *Berkeley, California*

- Currently **teaching Computer Architecture** concepts as a mentor to a group of students weekly.
- **Taught data structures concepts and mentored** many peers weekly, receiving a **4.5/5.0 effectiveness rating**.
- Co-led task forces to **teach** concepts of Git/Github and produce review videos for students.

Projects

Gym Data Visualization | https://rsf-crowd-data.web.app/ *AWS, IPYNB, Firebase*   **October 2022 - December 2022**

- Developed a **data visualization** web app to display the **crowd density** of the **UC Berkeley** campus gym.
- Received **97%** positive feedback from **over 200** UC Berkeley students and City of Berkeley residents.
- Coded a **data pipeline** to collect, transform, and store data from the school gym in a **cloud database**.

Wordle Improved | https://wordle-improve.web.app | *JavaScript, React, HTML/CSS, AWS* **May 2022 - September 2022**

- Launched a **responsive, improved** version of the hit game "Wordle" using ReactJS, hosted on an AWS EC2 instance.
- Construced an information theory based solver that is **97% as good** as the current best solver (3.54 avg guesses).
- Ensured compatibility with **multiple operating systems and browsers** using various Web APIs.
- Deployed the web app for **400+ users** by configuring **Apache HTTP server** on Linux machines in the **cloud**.

Technical Skills

Computer Languages: Python, JavaScript, Java/JUnit, RISC-V Assembly, C/C++, HTML, CSS, Go, C#
Developer Tools: VS Code, IntelliJ, PyCharm, Eclipse, Visual Studio
Technologies/Frameworks: ReactJS, Git/GitHub, Microsoft Azure, Linode, Jupyter Notebook, Linux, .NET, Django

Other Skills/Hobbies

- Languages: English (Bilingual Proficiency), Malayalam (Bilingual Proficiency), Mandarin Chinese (Limited WP)
- Trombone Performance - Accepted/performed in various ensembles at the school, state, and all-national levels.
- Hobbies - Bouldering, Poker Theory, Gaming, Weight Lifting, Speedcubing, Cooking