VAISHAK KRISHNA

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Education

University of California, Berkeley; GPA: 3.9 — **Aug. 2020 − Present**
B.A. in Computer Science — *Berkeley, California*
Honors: Dean's list, Upsilon Pi Epsilon CS Honor Society

Development Experience

XLNC — **May 2023 − Present**
Software/AI Developer Intern — *Berkeley, CA*
- Engineered a **persuasion assistant** that leverages **novel Rasch Guardrails** for user/chatbot evaluation
- Architected and coded an **end-to-end calibration/assessment system on the cloud**, accessible through API calls
- **Assembled cloud infrastructure** for ongoing evaluation of LLMs, **optimizing assessment speed by >20x**
- **Co-Authored** a research paper on the evaluation of **AI Ethics for LLMs** using a metrology-based approach.

FavorX — **March 2023 − June 2023**
Backend Developer — *Berkeley, CA*
- **Collaborated** with marketing/frontend teams to develop an **in-app currency system and 3+ new DB schemas**
- Developed/maintained **RESTful API endpoints** using MongoDB and Express.js for **scalable infrastructure**

QBurst — **June 2021 − August 2021**
Backend Software Engineer Intern — *Remote*
- Used the .NET framework to develop **RESTful API endpoints** to enable **efficient data acccess** of customer leads
- **Worked with other dev teams** to integrate the API into a mobile app and increase ad deployment efficiency

Projects

Gym Data Visualization | https://rsf-crowd-data.web.app/ *AWS, IPYNB, Firebase* — **October 2022 - December 2022**
- Created a serverless web-app with **97% positive feedback** from **>200** UC Berkeley students and Berkeley residents
- Coded a **data pipeline** to collect, transform, and store data from the school gym in a **cloud database**
- Leveraged **data visualization tools** to display the **crowd density** of the **UC Berkeley** campus gym

Wordle Solver | https://wordle-improve.web.app | *JavaScript, React, HTML/CSS, AWS* — **May 2022 - September 2022**
- Coded an information-theory based solver that is **97% as good and >10x faster** than the most accurate solver
- Coded extra features including a luck-agnostic skill calculator, free-play mode, and solving assistant
- Deployed the web app for **400+ users** by configuring **Apache HTTP server** on Linux machines in the **cloud**

Teaching/Tutoring Experience

Course Staff, Computer Architecture (UC Berkeley) — **June - August 2023**
Tutor — *Berkeley, California*
- **Created course material** and led teaching for exam-prep sessions, **reaching 40+ students.**
- Hosted 3 sessions weekly, working 1-1 to teach topics including as **C, processors, parallelism, and virtual memory.**

Computer Science Mentors (UC Berkeley) — **January - May 2022/2023**
Mentor — *Berkeley, California*
- Scored a **4.5/5.0 average rating** for teaching **computer architecture + data structures** concepts to 10+ students
- **Co-led task forces** to teach "Git" and produce review videos, **increasing student achievement** in the course

Skills

Computer Languages: Python, C/C++, JavaScript,Z RISC-V Assembly, Java, HTML/CSS, Go, C#

Technologies/Frameworks: Git/Github, VSCode, MongoDB, Jupyter, Azure, Linux, SQL, ReactJS

Developer Tools: VS Code, IntelliJ, PyCharm, Eclipse, Visual Studio

Hobbies: Bouldering, Poker Theory, Gaming, Speedcubing, Cooking