

# VAISHAK KRISHNA

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## EDUCATION

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University of California, Berkeley; GPA: 3.9

B.A. in Computer Science

Honors: Dean's list, UPE CS Honor Society

Aug. 2020 – Present

Berkeley, California

## EXPERIENCE

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Software Developer @ XLNC

May 2023 – Present

- Engineered a **persuasion chatbot** that leverages novel **"Rasch Guardrails"** for user/chatbot evaluation
- **Architected and coded** an end-to-end Rasch calibration/assessment system on Microsoft Azure's cloud.
- **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

Backend Developer @ FavorX

March 2023 – June 2023

- **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

Backend Engineer Intern @ QBurst

June 2021 – August 2021

- **Leveraged** the .NET framework to develop RESTful API endpoints to enable efficient data access of customer leads
- **Teamed with** other developers to integrate the API into a mobile app and increase ad deployment efficiency

## PROJECTS

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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**
- **Shipped** extra features including a **skill level 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

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 trends in crowd density averages** of the UC Berkeley campus gym

## TEACHING EXPERIENCE

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Course Staff @ CS61C

June - August 2023

- **Produce** 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**

Mentor @ CS Mentors

January - May 2022/2023

- **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

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**Computer Languages:** Python, C/C++, JavaScript, 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