

Amrita Palaparthi

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Stanford University

M.S., Computer Science

May 2023

University of California, Berkeley

B.S., Electrical Engineering and Computer Science (GPA: 4.0)

May 2021

Work Experience

Stanford University – Graduate Teaching Assistant

Fall 2021 – Present

- Teach Artificial Intelligence concepts including ML topics, Search Problems, and Markov Decision Processes to undergraduate and graduate students as part of course staff for CS 221, Stanford's upper division AI course

Splunk Inc – Software Engineering Intern, Cloud Observability

Summer 2021

- Designed and developed dashboards for SLO discoverability, enabling users to dive into, visualize, and share information on Service Level Objectives across regions, teams, K8s clusters, and services. Leveraged Prometheus for metric collection, Grafana for UX, and Golang for integration into Dashboards as Code workflow.
- Led Hackathon team project for automated Slack URL recognition/shortening. Currently serves ~10,000 Splunk users
- Contributed to team discussions, wrote design documentation, and presented demonstrations to internal customers

Berkeley Artificial Intelligence Research (BAIR) Lab – Research Assistant

Summer 2020 – Spring 2021

- Served as undergraduate collaborator on project focused on Long-horizon Planning in complex robotics tasks
- Leveraged diverse frameworks and tools including TensorFlow, OpenAI, and MujocoPy libraries to design and implement Convolutional Neural Network architectures

UC Berkeley EECS Department – Head Undergraduate Student Instructor

Fall 2020 – Spring 2021

- Served as Head Teaching Assistant for CS 61A, introductory Computer Science course with 1700+ students enrolled
- Developed course content+software in Python, JavaScript, and HTML/CSS, ran discussion sections of >400 students

UC Berkeley EECS Department – Undergraduate Student Instructor (Teaching Assistant)

Spring 2020

- Ran weekly discussion and lab sections of up to 40 students, elaborating on course concepts and problem-solving techniques to prepare students for exams and future programming endeavors in Python, SQL, and Lisp/Scheme

BAIR Lab – Research Assistant (Continual Learning)

Spring 2020 – Summer 2020

- Contributed to research project centered on the application of Continual Learning approaches to Computer Vision tasks including image segmentation and object detection, planned to submit research publication to ICCV 2021
- Wrote PyTorch programs for data generation/processing, adapting CL architectures for Computer Vision contexts

UC Berkeley EECS Department – Course Tutor

Fall 2019

Genista Biosciences, Inc. – Summer Intern

2015 – 2019

- Developed multiple software applications, ranging from web apps to analysis of employee productivity metrics, tracking and reporting comparative data to improve workplace efficiency. Implemented graphic design projects
- Executed microbial testing of food/environmental samples to ensure food safety

Relevant Coursework

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|----------------------------------|------------------------------------|----------------------------------|
| • Design/Analysis of Algorithms* | • Machine Learning/AI | • Signals, Devices, and Systems |
| • Introduction to Networking* | • Introduction to Entrepreneurship | • Data Structures |
| • Principles of Robot Autonomy* | • Computer Security | • Computer Science Pedagogy |
| • Software Engineering | • Data Science Principles | • Computer Architecture |
| • Database Systems | • Discrete Math and Probability | • Accounting/Financial Reporting |

Activities

- Coach, FIRST Robotics, Silver Creek High School**
- Computer Science Mentors, TBP/HKN Candidate**

Skills

- | | | |
|---|--|--|
| • Java, Python, SQL, C, MongoDB, JavaScript, React, Node.js, Ruby on Rails, Go, RISC-V, Apache Spark/MapReduce, Jupyter, VBA, HTML/CSS, JSON, LaTeX, OpenMP | • K8s, Prometheus, Grafana, Splunk tools, Web Services | • Agile, Jira, Confluence, CI/CD |
| | • PyTorch, OpenAI Gym, MujocoPy, Stanford Robosuite, DeepDrive /COCO/Pascal Image datasets | • Cucumber, RSpec, Jasmine |
| | | • Adobe Illustrator, InDesign, Dreamweaver |
| | | • Languages: Spanish, Telugu, Hindi |

Awards/Honors

- UC Berkeley Highest Honors, Dean's List (2018, 2019, 2020, 2021), UC Berkeley Kraft Award Recipient (2019)
- NCWIT (National Center for Women & Information Technology) Aspirations in Computing Award