AMRUTA YELAMANCHILI

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EXPERIENCE

NASA Jet Propulsion Laboratory

Pasadena. CA

Software Engineer, Artificial Intelligence Group

March 2018 - Present

Software Intern, Mission Control Systems and Software Architecture

May 2017 - December 2017

- · Developed and maintained the automated scheduling systems used in the operations of the Earthobserving ISS-mounted instruments ECOSTRESS and OCO-3, and the high-risk multi-billion dollar Mars 2020 Perseverance Rover
- · Created an explainable AI tool that analyzes Mars 2020 schedules and displays on an AWS-based webpage information to operators about how to change input constraints to achieve their desired schedules
- · Rapidly developed multiple software solutions for hardware challenges on ECOSTRESS, achieving a science return 3x what was proposed
- · Received a prestigious NASA Early Career Public Achievement medal for work on automated scheduling for ECOSTRESS being critical to the success of the mission
- · Presented at multiple space and artificial intelligence conferences, such as SpaceOps and ICAPS workshops

Athenahealth San Francisco, CA

Software Intern, Epocrates Search Team

May 2016-August 2016

- · Expanded the capabilities of search to be able to handle queries relating drugs, diseases, and insurance information
- · Prototyped a chatbot for doctors to aid in the the prescription of drugs based on a patient's insurance and diagnosis of conditions
- · Worked on the full stack from pulling in database information and indexing it, parsing user input, and creating a frontend user interface

UC Berkeley EECS Department

Berkeley, CA

Undergraduate Student Instructor

May 2015 - December 2017

- · Taught four classes over multiple semesters: The Beauty and Joy of Computing, Data Structures, Databases, and Teaching Techniques for Computer Science
- · Created and graded homeworks, projects, and exams
- · Taught weekly discussion and lab sessions and held office hours for additional student help

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. in Computer Science and Applied Mathematics, 3.9 GPA

August 2013-December 2017

· Selected Courses: Artificial Intelligence, Machine Learning, Algorithms, Data Structures, Databases, Internet Architecture, Operating Systems, Computer Security, Linear Algebra, Numerical Analysis, Real Analysis, Complex Analysis, Abstract Algebra

PROGRAMMING SKILLS

Excellent C++, Python

Proficient Java, C

Familiar Javascript, HTML/CSS, SQL