Prathik Aman Rao

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EDUCATION

University of Southern California, **Viterbi School of Engineering**   Los Angeles, CA
Bachelors of Science in Computer Science and Computer Engineering   Aug 2017 - May 2021
Minor in Cinematic Arts, **GPA: 3.4**

Stanford University, Computer Science Department   Palo Alto, CA
Computer Science Intensive Study Certification, **GPA: 3.6**   Jun 2018 - Aug 2018

EXPERIENCE

Intel Corporation - Artificial Intelligence Products Group   San Diego, CA
Software Engineering Intern   May 2019 - Present
- Using JIRA API and Jenkins CI to retrieve test result data from 10+ test suites and synthesizing it into a useful report
- Used Python Flask library to build a microserver that serves the report data to a custom-built web dashboard
- Used historical data and environmental conditions to train a logistic regression model to predict test failure

USC Computer Science - Introduction to C++ Programming   Los Angeles, CA
Head Undergraduate Teaching Assistant   August 2018 - Present
- Proctor exams, grade assignments, filter/develop new assignments, and provide feedback on course instruction
- Manage 30+ TAs to ensure students receive the best support during the course

PROJECTS

Climate Cents, Crowdfunding Platform for Environmental Organizations   Aug 2019 - May 2019
- Developed microserver logic in JavaScript using the ExpressJS library and PostgreSQL for database management
- Learned how to build a dynamic webpage and how to connect backend logic with frontend displays

Smart Rebounder, Robotic Basketball Hoop Attachment   Aug 2018 - May 2019
- Developed an attachment that tracks a shooter's position and rotated a rebounding attachment towards them
- Used OpenCV to track shooter position via webcam and an Atmega328 device to automate servo motor motion

HomeHub, Web-Based Chore Distribution Tool   Oct 2018 - Nov 2018
- Developed a software tool to distribute chores between housemates using JavaScript and Java
- Included functionality like user registration with Google sign-in API, SQL database management, and Java servlets

Stanford-Shell, Custom Terminal/Shell Application   Jun 2018 - Jul 2018
- Developed a pseudo-shell using C/C++ system calls to provide custom builtin commands
- Used multiprocessing to support running commands in the background and piping I/O between processes

LEADERSHIP & INVOLVEMENT

USC Makers - Computer Software/Hardware Organization   Los Angeles, CA
Project Manager   Aug 2017 - May 2019
- USC's Premier hobbyist club for electrical engineers and computer scientists
- Lead a team of 7+ engineers to develop a basketball hoop attachment that'll impact the way basketball players train

USC Code the Change - Computer Science and Social Impact Organization   Los Angeles, CA
Backend Developer   Aug 2018 - Present
- CTC is a student organization that drives social impact through software projects for non-profit organizations
- Worked with Climate Cents Inc. to create a mobile/web software solution to centralize climate change fundraising

USC Zeher - Bollywood Fusion Dance Team   Los Angeles, CA
Social Media Manager   Aug 2017 - Dec 2018
- Increased Zeher's social media follower count by 20% and created videography projects viewed by 3,000+ people