**PRATEEK RAO**

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**SKILLS**

*Programming languages:* Java, C++, JavaScript(ES6+), Python, Ruby, SQL, HTML, CSS, Swift

*Software Frameworks:* Node.js, React.js, Redux, Vue.js, Flutter, BootstrapJS, Flask, Jinja2, Selenium

*Development Platforms:* AWS, Heroku, GCP, Nginx, Firebase, MongoDB

**EDUCATION**

*University of California, Irvine* (2016 - Present)

* Dean’s List: Fall 2016, Spring 2017 Expected Graduation: 2020

*Sri Kumaran Children’s Home, Bangalore* (2012-2016)

* Top 5 percentile in graduating class of 2016

**LEADERSHIP**

*Director at ZotHacks* 2019

* Co-hosted a 12-hour Freshman hackathon for 50 participants at UC Irvine.
* Part of a team that vetted over 400 applicants for the hackathon.
* Hosted a workshop on creating a Reddit bot during the event to illustrate the basics of APIs and web sockets.

*Organizer at Hack at UCI*  2017- Present

* Planned, organized and promoted HackUCI, a yearly hackathon at UC Irvine.
* Performed data analysis using Python and GSheets API to understand event feedback from a statistical standpoint.
* Improved the productivity of the team by creating a program to automatically notify members of pending tasks.

**PROJECTS**

*Measles Outbreak Predictor* (2019)

* Part of a team that developed multiple Machine Learning models to predict the likelihood of a Measles outbreak.
* Prepared the dataset by scraping the MMR vaccination and outbreak information from the CDC using Selenium.
* Worked on training, fitting and testing decision tree, neural network, Naïve Bayes and random forest models.
* Calculated ROC statistics and confusion matrices for all models to compare performance.

*Travel Mapper* (HackMIT 2018)

* Member of a team that developed a web application to plan and map destinations to visit while travelling a city.
* Implemented a frontend UI using Bootstrap and frontend web page routing using jQuery.
* Obtained directions, places to visit and visiting hours from the Google Maps API and Directions API.
* Implemented the Dijkstra algorithm to suggest an optimal list of tourist destinations to visit in a given time frame.

*Hack Trello* (2018)

* Part of a team that developed an application that reminds members of Hack at UCI of pending Trello tasks.
* Used the Trello API (https://trello.com) to import task-related data from Trello Boards.
* Used Twilio, SendGrid and Facebook APIs to send task messages via text, email and Facebook respectively.
* Developed a landing page for the sender using Flask, Jinja2, HTML and CSS.

**PROFESSIONAL EXPERIENCE**

*Tutor at VarsityTutors Inc.*  2017 – 2019

* Worked with high school students to help them succeed in ACT, SAT and AP tests.
* Created comprehensive problem sets incorporating questions from exactly 25% of each section of the ACT exam.

*Tutor at International Students Excellence Programs* 2017 – 2018

* Helped peers with college coursework in subjects such as Chemistry, Math, Physics and Computer Science.
* Maintained a schedule for all peers, ensuring their success in the tutored course.