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Nishil Macwan

Education

Sept 2016 - **B.S. Computer Science, UC San Diego**, Major GPA: 3.54.

June 2020 Provost Honors, awarded to GPA 3.5+; Revelle Honors, awarded to top 5% of Revelle college students

Experience

June 2018 - **Software Quality Engineering Intern, ServiceNow**, La Jolla, CA.

- Sept 2018
 - Developed automated tests using JUnit for regression & smoke test suites with continuous integration to cover new sprint stories for the Edge Encryption and core platform team
 - Triaged and debugged test failures and flappers
 - Refactored nightly unit tests to cut down execution time
 - Performed and refactored regression and smoke test suites to minimize regression

Sept 2017 - **CSE Tutor, UCSD CSE Department**, La Jolla, CA.

- Present
 - Tutor for Introduction to Computer Science in Java and Discrete Mathematics
 - Graded programming assignments, homework and exams, held office hours to explain proving techniques and help debug code in Java
 - Helped students understand the foundations of object oriented programming through tutor hours and discussion sections

Projects

Oct 2017 **Meet to Dine, Cal Hacks 2017, OpenTable Sponsor Prize.**

- App that helps groups plan their dinner and make reservations
- Finds the list of best restaurant based on distance, preferences, reviews and reservations available and displays them on a Google map
- Using the OpenTable API, implemented the backend infrastructure to create a list of restaurants in Node.js, and created the frontend using React Native in expo.io

Mar 2018 - **flick.**

- May 2018
 - Created an Android app that lets UCSD students rent items out to each other
 - Used Node.JS and Firebase to develop the backend functions of the app and developed a REST API to communicate with the frontend
 - Developed the frontend in React Native, wrote test cases in mocha and chai and integrated the frontend to the backend

Feb 2018 **Autocomplete and Document Generator.**

- Implemented a ternary search tree data structure in C++ to store a dictionary of words
- Implemented autocomplete functionality for a given prefix by using the tree to give suggestions of top 10 words for the input based on occurrences
- Used a Markov chain model and the STL in C++ to implement a document generator, that generates "fake" documents based on the writing style of authors

Technical Skills

Languages.

Java, C/C++, HTML/CSS, LaTeX, JavaScript, Shell Scripting

Technologies.

Node.js, Unix, Javafx, Git/GitHub, Jenkins, Maven