Aravind Patnam

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EDUCATION

2016-2020 **University of California, Santa Cruz: B.S. Computer Science**
Relevant Coursework: Data Structures & Algorithms, Assembly, Multivariable Calculus, Discrete Mathematics, Linear Algebra, Networking, Operating Systems

TECHNICAL SKILLS

Programming
- Java, Python, C, Unix, Git, Android App Development, MATLAB

Hardware/Electronics
- LC-3 Assembly Code, MIPS Assembly Language Code, Uno32/Pic32 IO

WORK EXPERIENCE

Sept 2016 - Jan 2017
- **Undergraduate Researcher - UC Santa Cruz, School of Engineering - ICU Healthcare Analytics Project**
  - Worked on the development of data extraction/analysis algorithms in Java and Python of previously given patient data-sets.
  - Created client modules capable of testing and analyzing accuracy of Machine Learning models.

Sept 2017 - Jan 2017
- **Software Engineering Intern - ResQ Medical Inc.**
  - Working on Mobile Development for Android
  - Integrating with backend using JSON, HTTP, & REST API's
  - Implementing location based services and geofencing

(Incoming)
- **Undergraduate Researcher - Yu Zhang Research Group - UC Santa Cruz Baskin School of Engineering**
  - https://people.ucsc.edu/~yzhan419/group.html

PROJECTS

- **IMDB Movie Rating Guesser**
  - A program that analyzes the rating behavior data of thousands of users, and then predicts how the user would rate another movie. Data mining, file parsing techniques, and prediction algorithms were used to bring accuracy of guess within 0.77.
- **Crypt**
  - A program that analyzes and extracts data from documents for specific text patterns and encrypts/decrypts them using efficient algorithms
- **FinanceWiz**
  - A streamlined and secure personal financial assistant that tracks all finance using networking techniques, encryption, and password security architecture. Currently being converted to app.

AWARDS, HONORS, & LEADERSHIP

- **February 2015** Qualified for national level programming competition (PicoCTF Cyber-Security Competition) and was placed top 25th percentile nationally
- **2015 - 2016** Physics Club VP - organized events & competitions
- **2016-2017** USA U-19 Cricket Team - featured on Sportscenter Top 10