Bay Area, CA
San Diego, CA

Sushanth Mukkamalla

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EDUCATION:

University of California, San Diego — Anticipated Graduation: June 2019
Bachelor of Science, Computer Engineering — GPA: 3.676/4.000

SKILLS:

- Languages: Java, C++, C, BASH, Batch, Python, SPARC Assembly, JavaScript, HTML, CSS, MySQL
- Tools: Android Studios, Arduino, Git, SVN, Vim, Eclipse, Gradle, Firebase
- Traits: Self-Motivated, Observant, Team Player, Hard-Working, Quick Learner
- Bilingual in English and Telugu. Familiar with written and spoken Spanish.

WORK EXPERIENCE:

- Buck Institute for Research on Aging (Novato, CA Summer 2016)
  Software Engineering Intern
  - Utilized Java, Batch scripting, and Python to streamline mass spectrometer data conversion process.
  - Using Java, I created a GUI that takes a variety of parameters (file names, numbers, programs to run), handles errors, and feeds the parsed data into a batch script that automatically runs the selected programs with the specified inputs.

- Fidelity National Information Services Inc. (San Francisco, CA Summer 2017)
  Android Developer Intern
  - Utilized Java and self-taught knowledge of Android programming to help the Customer Integration team add new features to a custom mobile banking application. Features include: password reset, highlighting primary account, and a spendable balance calculator.
  - Learned a new programming tool, Gradle, and used it to fix a major problem with the automated workflow process where text was not getting printed properly.
  - Learned about Agile software development process through participation in daily stand-ups, 2 week sprints, and collaboration with other parts of the development team.

PROJECTS:

- Android Projects (2016 – current)
  - **Distance Tracker/Drawer**: Using Google Maps API, this app draws the path you have taken and displays the total distance covered. Added functionality allows user to draw on the map and it will tell them the total distance of the path.
  - **Plates: Making Friends Over Food**: Using Firebase database, I created a networking app where UCSD students can meet others with similar interests and socialize over food. The database stores user profiles and their interest levels for a list of predefined categories. Users are then matched based on a Euclidian distance algorithm which calculates and ranks how similar one's interests are from others.
  - **Stocks**: Makes Alpha Vantage API calls to collect information about stocks the user has selected. Utilizes open source graph library to display changing stock information in real time. User can also interact with the graph to see historical trends.
- Arduino Projects (2015 – current)
  - **Open Door Alert**: Using a combination of C programming, HTML, REST API, an Arduino microcontroller, and other hardware components, I created a tool that would send information to a website indicating whether a door has been opened.
- **Grand PrIEEE Competition** (2016 – 2017)
  - Worked in a team of 5 to design, test, and implement a robot that can detect an arbitrary track and race autonomously, given a $500 budget.
  - Used C programming to create an algorithm that would read data from a camera, process it through median filters, figure out the general area of the track, and send messages to the motor to break and accelerate depending on the curves in the path.

HONORS:

- National Honors Society Lifetime Member
- Herald Mahoney Community Achievement Award
- Fifth place in Science category at USAD State Competition