

Education

University of California, Berkeley

B.A. in Computer Science (GPA: 4.0)

Technical Skills

Programming languages: Java (Strongest), C/C++ , Python, HTML, CSS, JavaScript, and MySQL

Softwares and Platforms: Android, OpenCV, Git, BioPython

Work Experience

Software Engineer Intern – Pure Storage, Mountain View, CA 5/17-8/17

- Implemented a data cache for highly dedupable data to avoid costly SSD read using C++
- Parsed and collected log data for using Regex and Python scripts to evaluate performance
- Engaged in Agile software development (JIRA), concisely documenting the design for future reference

Bioinformatics Research Intern – San Diego Supercomputer Center, San Diego, CA 1/16-5/16

- Examined means of extracting heart rate data from a video captured on the tip of a finger
- Accurately matched each short shuffled PPG signals to a corresponding section of a long ECG signal

Web Developer – Coronado Men Connection, San Diego, CA 11/15-4/16

- Designed a modern website in a team of four using JavaScript, JQuery, and Bootstrap
- Set up and managed a Linux Ubuntu LAMP stack hosting the website

Bioinformatics Intern – La Jolla Institute of Immunology & Allergy, San Diego, CA 5/15-8/15

- Developed in a team of three a BioPython web tool comparing mutated Ebola Virus sequences to existing ones from Immune Epitope Database using MySQL
- Had an immediate impact in face of 2014 Ebola outbreak for biologists who lacked computation

Personal Projects

Google Drive for Linux 6/17-Ongoing

- Coded in a team of three the first command line Google Drive Linux Client that synchronizes continuously
- Designed modularly such that the program would work for any cloud storage such as OneDrive or icloud

Android App “Money Counter++” 7/15-10/15

- Coded in the Android platform a simple coins and bills counting app with easy user interface
- Designed all graphical elements from scratch using Adobe Photoshop and Illustrator

Other Experience

OpenCV C++ Developer – Coleman University team in San Diego RoboSub Competition 3/16-7/16

- Acted as main OpenCV C++ developer for the computer vision of an underwater autonomous vehicle
- Tackled difficult tasks such as buoys and gates detection using color segmentation and shape detection