Ayush Jain

ayushajain@gmail.com | 408.398.9117
Github: ayushajain , LinkedIn: ayushajain1 Website: ayushajain.com

EDUCATION

CUPERTINO HIGH SCHOOL
June 2017 | Cupertino, CA

USC
Expected June 2021 | Los Angeles, CA

HONORS & AWARDS

GOOGLE FOOBAR
Completed Recruitment Challenge

HP CODE WARS
1st Place

MAKE HACKS
Social Network Award

ANGELHACK
Myo & Autodesk Award

SKILLS

PROGRAMMING
Languages:
Python • Java • Octave/Matlab
Javascript • C++ • Shell • HTML/CSS
Libraries & Frameworks
OpenCV • Numpy • Pandas • Scikit
Tensorflow • NodeJS • Angular • Firebase
Tools
Unity • Maya • Photoshop • Illustrator

PROJECTS

SCRIBE
HackingEDU
An optical character recognition program for helping students study from their textbooks. Using Google Tesseract and word2vec to convert pictures from a textbook page into practice quiz questions.

BUTLER
Los Altos Hacks
An intelligent slackbot for managing teams and projects. Butler uses natural language processing (through wit.ai) to parse intents and manage Github and Slack organizations.

AR-DRONE
An autonomous indoor drone navigation program using the Parrot AR Drone. Uses computer vision to navigate its surroundings.

EXPERIENCE

FALKONRY | Associate Software Engineer
(Prev. Data Science Intern)
Sept 2017 – Present | Sunnyvale, CA

- Identified a method for isolating early warning patterns in EEG data of epilepsy patients
- Automated core algorithm and data management testing. (Ultimately lead to revealing an algorithm regression)
- Created preanalyzer to determine an optimal subset of signals to be used in training. Used Docker and Shippable to automate development and deployment pipeline. Integrated Oauth and Tornado spawned proxies to whitelist internal Falkonry users and save user files/settings.

DRONESDASH | CTO & Co-Founder
July 2016 – Aug 2017 | Menlo Park, CA

- Led core product development including an in house built drone, a coordinated drone network, and client-side app
- Developed computer vision solutions using OpenCV, Pandas, and Scikit to authenticate users in realtime during delivery (from 150 feet in the air)

TECHLAB EDUCATION | Software Engineering Intern
May 2015 – Aug 2015 | Saratoga, CA

- Led various programming classes teaching teens and children how to code(Java, Python, Web Development, IOT, Arduino)
- Collaborated with other interns to redesign the Techlab website and build an aquaponics system.

CHS ROBOTICS | Software Captain
Oct 2013 – June 2015 | Cupertino, CA

- Managed team 7128's software team which included mentoring and motivating freshman and sophomore teammates.
- Oversaw drive code, developed autonomous navigation using C++, and maximized team efficiency within a constrained time period.

RESEARCH

DEXTO | Electromyography Research
July 2015 – Dec 2015 | Cupertino, CA
Developed a prosthetic modeling and positioning software. Implemented naive bayesian classification algorithm and low pass filters + constant pass standard deviation formula to interpret real time electromyographic signals into gesture events.

ISTITCH | Computer Vision + Diabetes Research
June 2015 – August 2015 | Saratoga, CA
Worked with M.D. Candidate, Yash Vaishnav, to develop a image processing program to classify patients with diabetes from videos of their corneal sub-basal nerve plexus. Used OpenCV image stitching tools and vector trees of nerves to calculate fiber tortuosity, branch density, etc. for classification.

PATENTS

Binary Flash Authentication | Patent No. 15246258