Ayush Jain

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EDUCATION

CUPERTINO HIGH SCHOOL
Expected June 2017 | Cupertino, CA

Coursework
AP Physics C
AP Calculus BC
AP Computer Science
AP Statistics
AP Chemistry
AP Spanish

Concurrent Enrollment
Calculus D

SKILLS

PROGRAMMING
Languages:
Python • Java • Octave/Matlab
Javascript • C++ • Shell • HTML/CSS
Libraries & Frameworks
OpenCV • Tensorflow • NodeJS
React Native • Firebase
Tools
Unity • Maya • Photoshop • Illustrator
Familiar:
iOS • Android

PROJECTS

AR-DRONE
An autonomous indoor drone navigation program using the Parrot AR Drone. It uses various computer vision algorithms to understand its surroundings.

SCRIBE
HackingEDU
An optical character recognition program for helping students study from their textbooks. Using Google's Tesseract for OCR and a neural word embedding called word2vec in order 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 a natural language processing engine to parse intents and manage github and slack organizations.

EXPERIENCE

DRONES-DASH | Chief Technical Officer + Co-Founder
July 2016 – Present | Menlo Park, CA

- Co-Founded the drone delivery startup with Shivum Agarwal, John Gotcher and Chase Traficanti
- Developed computer vision and machine learning solutions in order to authenticate users during delivery
- Leading core product development to develop coordinated drone network and client-side app

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

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

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

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

RESEARCH

DEXTO | Electromyography Research
July 2015 – Dec 2015 | Cupertino, CA
Worked with Rohan Iyer and Stuart Rucker to develop a prosthetic modeling and positioning software. Using the bayesian classification algorithm, low pass filters and a constant pass standard deviation formula, we were able to interpret real time electromyographic data into gesture events.

ISTITCH | Computer Vision + Diabetes Research
June 2015 – August 2015 | Saratoga, CA
Worked with Yash Vaishnav, an M.D. Candidate, and Stuart Rucker to develop a image processing program to classify patients with diabetes from videos of their corneal sub-basal nerve plexus. By using OpenCV's image stitching tools and creating vector trees of the detected nerves, statistics such as fiber tortuosity and branch density could be calculated and used to classify patients accordingly.

PATENTS

Modular Drone Payloads | Patent No. #####
Binary Flash Targeting System | Patent No. #####

HONORS & AWARDS

2016	Completed Level 5	Google Foobar Challenge (Recruitment)
2016	1st Place	HP Code Wars
2016	Social Network Award	Make Hacks
2015	Myo + Autodesk Award	AngelHack Silicon Valley