

Arjun Mehta

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EDUCATION & SKILLS

University of California, Berkeley, Class of 2017: *B.S. Electrical Engineering and Computer Sciences* | GPA: 3.5

Courses: DB, Embedded Sys, OS, AI, Software Eng, Networks, Data Structures, Algorithms, Circuits, Signals, Machine Structures

Skills: Python, Java, C, Javascript, Rails, C++, Git | Django, Rails, AngularJS, ReactJS, JQuery, Android | Back End, Front End, UI/UX

EXPERIENCE

Kloudless (API Integration company)

August 2016 - present

Software Engineering Intern, Berkeley, CA

- Assisted with implementation of File Storage services such as Dropbox, Box, Egnyte, Google Drive into the Kloudless API, specifically for features such as raw data pass through to perform arbitrary requests, and also file hierarchy management.
- Developing several endpoints using Django Rest Framework to provide a more integrated and robust API, while allowing for scoping and OAuth security to be maintained across accounts, as well as providing specialized admin functionality.

Sighten (SaaS company for solar financiers & installers)

Summer 2016

Software Engineering Intern, San Francisco, CA

- Implemented 20+ incentive, credit & loan solvers on the backend with pandas and numpy, along with several metrics for calculating household solar statistics. This reduced wait time to nearly 1/10th and streamlined the data flow for frontend.
- Built an interactive admin portal that also served many API endpoints using Django, Django Admin & custom libs. Helped ops team in onboarding customers in 2 days rather than weeks. Served as a valuable debugging & testing tool for the dev team.
- Created several widgets and improved customer feedback system on frontend using AngularJS, and integrating with Freshdesk, a customer support software. This assisted the ops team in logging feedback more efficiently & with less error.

Berkeley Institute of Data Science

January – May 2016

Web Developer, Berkeley, CA

- Developed an interactive front end web interface with React JS for Text Thresher, a crowd worker based platform that allows documents to be hand labeled & classified by preference, for a research project led by Research Fellow Nicholas Adams
- Integrated Redux with the front end to improve state management and allow for custom questions and answers on the platform. Interfaced with the Django backend to allow for JSON data exchange & implemented pipelines to streamline this.

ideaForge (drone manufacturer for military use)

Summer 2015

Software Engineering Intern, Navi Mumbai, India

- Developed an efficient video compression algorithm to compress the surveillance video data from the drone's camera using C#, which allowed for small video files to be efficiently compressed. Tests runs worked with video files up to 50MB.
- Subsequently used this compression algorithm with OpenCV & EmguCV to build a buffering model for live frame capture & encoding over C++/CLI interface. Implemented this encoding (to H.264) via hardware using Intel Quick Sync Hardware Encoder lib. The hardware encoding enabled about 5 minutes of live stream to be efficiently compressed & encoded.

PROJECTS AND LEADERSHIP

Technical Lead, Inventory Management, Berkeley Student Food Collective

January 2016-present

- Developing a Django web application to serve as a backend service for a Clover based retail application for better management of inventory. It also supports more flexible revenue, sales & cost calculations that were previously untrackable.
- Implementing predictive learning to use past purchase patterns to improve food purchase, via Clover API & Google Analytics.

Project Leader, Cal Dining Webapp (<https://caldining-169.herokuapp.com/>), CS 169

January – May 2016

- Led team of 6 to build a Rails app that improves Cal Dining's current menu & features. Worked on Backend: used several gems & APIs like Nokogiri, Sidekiq & Filepicker to parse scraped data, run cron jobs daily & allow photo uploads by students.
- Implemented testing via Cucumber & Rspec, to ensure unit & integration tests worked and provided > 90% coverage.
- Maintained tasks, user stories, tickets via PivotalTracker and organized scrums, & meetings with customer, which led to efficient and productive task management and meetings. Also conducted entry and exit interviews, and user research.

Technical Lead, Smart Pen (device that digitizes the strokes of a pen/any pointing device)

June – December 2015

- Led a team of 6 with Hardware Bluetooth development, using Blueduino. Wrote Arduino libraries for data transfer from an ADNS 9800 optical mouse sensor and assisted with PCB design. Able to reduce data exchange delays by almost ½.
- Led Android App development: implemented low energy Bluetooth, data transfer and parsing, and displaying data on Bitmap. Further assisted to optimize to support OpenGL graphics that helped in smooth vector graphics that did not have as much lag

Officer & Front End Design Web Team Lead, Berkeley Innovation (Campus Organization – Human Centered Design)

2014

- Assisted in planning club events, organizing 30+ companies to make pitches, design nights, fundraising (over \$10000)
- Led team of 4 to design new front end for website. Built mock-ups, wireframes with Photoshop & Illustrator using UI/UX, presented at Squarespace designathon and won first place with best design.