

Alan Gou

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Education

Columbia University

Expected May 2017 | New York, NY
BS Computer Science
GPA 3.94 (cumulative), 4.0 (major)

Courses

Columbia University

Operating Systems
Analysis of Algorithms
Natural Language Processing
Systems Programming
Computer Architecture

Udacity

Data Analyst Nanodegree
Full-stack Nanodegree
iOS Developer Nanodegree

Technologies

Python	HTML	SQL
Java	CSS	MongoDB
Swift	JavaScript	C

Activities

ScriptEd

Web Developer Instructor

- Teach class of 20 high schoolers HTML, CSS, and JavaScript at the Coalition School for Social Change

ADI Labs

Student Application Developer

- Develop applications for use in the Columbia community
- Mentor underclassmen in app development

Hackathons and Competitions

Nov 2015 HackRU
Sep 2015 Girls Who Code
Nov 2014 Federal Reserve Challenge
Nov 2013 Federal Reserve Challenge

Experience

Kinnek

Jan 2016 – Present

Software Engineering Intern

- Extended CMS functionality for Django admin, decreasing time content creators spend on adding new content by 40%
- Developing asset management system for suppliers and buyers to manage quotes and purchases using Angular and Django

Sustainable Engineering Lab

Oct 2015 – Present

Software Engineer

- Build data collection pipeline for Development Planning Toolkit and integrate it with Revisit API using Node.js and MongoDB
- Migrated Wordpress website to Jekyll-based solution hosted on Github pages

Bristol Myers-Squibb

Jun 2015 – Aug 2015

Database Engineering Intern

- Created Oracle data warehouse and pipeline for in-vivo studies that services over 300 scientists in BMS's oncology department
- Implemented data-cleaning procedures that parsed 40 terabytes of information per refresh
- Developed front-end visualizations for in-vivo warehouse using Spotfire for use in Oncology and Business Analytics

Projects

Edufai

Aug 2015 – Personal

- Image-recognition learning game for children to associate language with images built using Flask and React
- Uses adaptive learning algorithm to tune the difficulty of the game based on the user's success rate

Enron Email Analysis

Sep 2015 – Personal

- Analysis of Enron data corpus to create a machine learning model that predicts whether an individual was involved with the fraud
- Conducted using sklearn in Python

Mealie

Sep 2015 – ADI Labs

- iOS app on iPhone linked with LAMP back-end that recommends meals at restaurants and dining halls in the area to students based on dietary and weight goals, built with Swift on Xcode
- Fine tunes recommendations over time using an adaptive algorithm implemented in Python using sklearn