

Alan Gou

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Education

Columbia University

Expected May 2018 | New York, NY
BS Computer Science

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	Azure	AWS
Java	JavaScript	C
Swift	SQL	F#
HTML	CSS	Redis

Activities

ScriptEd

Co-Lead 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

Jet

May 2016 - present

Software Engineering Intern
New York, NY

- Worked on the pricing team for e-commerce startup
- Created distributed pricing simulation service using F#, Azure Cloud Services and SQL, Kafka, and Redis
- Developed web API for management of pricing algorithm inputs
- Simulation service used by multiple teams to price several hundred thousand SKUs per minute

Kinnek

Jan 2016 - May 2016

Software Engineering Intern
New York, NY

- 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 - Jan 2016

Software Engineer
New York, NY

- 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
Princeton, NJ

- Created Oracle data warehouse and pipeline for in-vivo studies that services over 300 scientists in BMS's oncology department
- Developed front-end visualizations for in-vivo warehouse using Spotfire for use in Oncology and Business Analytics

Projects

UniScraping

April 2016 - Freelance

Python, AWS, Redis

- Built a scraper to trawl more than 40,000 student directories
- Used Python requests library to send queries
- Built framework that automatically starts/stops AWS instances to run Celery tasks on new IP addresses when old address is blocked

Edufai

Aug 2015 - Personal

HTML, CSS, JavaScript, Python

- 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

Python

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