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
Reverse Engineering Malware
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   Software Engineering Intern
May 2016 - August 2016   *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   Software Engineering Intern
Jan 2016 – May 2016   *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

Sustainble Engineering Lab   Software Engineer
Oct 2015 – Jan 2016   *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   Database Engineering Intern
Jun 2015 – Aug 2015   *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