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Education

University of Pennsylvania, School of Engineering and Applied Science in Philadelphia, PA

Class of 2017

- Pursuing B.S.E. in Computer Science and M.S.E. in Computer Science

Recent coursework:

Machine Learning (Python)
Database and Info. Systems (SQL)
Networks and Security (Python, C)
Scalable & Cloud Comp. (Java, Js.)

Machine Translation (Python)
Operating Systems (C)
Computer Architecture (C, Assembly)
Market & Social Systems (Java)

Analysis of Algorithms Stochastic Processes Abstract Algebra Italicized = graduate course.

Experience

SumAll in New York City, NY

Summer 2015

Software Engineer Intern - Java, Python, Haskell

- Intern for the backend team at SumAll, a data analytics startup specializing in data analytics in social media.
 - Wrote RESTful backend microservices that synced together the company's streams of user data, with support for scalable distributed computing through database sharding.
 - Technologies used included Dropwizard, Jersey, and Jackson for Java, Flask and Boto for Python, MongoDB, Dynamo, and Docker.

University of Pennsylvania in Philadelphia, PA

August 2014 - Present

Teaching Assistant - Java

- TA for CIS 121 ("Data Structures and Algorithms"), a third semester course in Penn's Computer Science sequence
- Teach weekly recitations, rewrite projects and homeworks, improve autograders, hold office hours, grade assignments and exams, and lead review sessions.

University of Pittsburgh Medical School in Pittsburgh, PA

May 2014 - Present

Contract Software Developer - JavaScript, PHP, SQL, HTML/CSS

- Developed and currently maintain penstesting.com, a web app making and administering exams to medical school students
- Please see project below.

BudgetSimple, Inc. in Pittsburgh, PA

Summer 2014

Software Development Intern - JavaScript, PHP

- Summer internship at BudgetSimple, Inc., a web company specializing in budgeting apps for consumers
- Implemented a new startup wizard using Backbone.js, as well as a corresponding backend following RESTful API
- Improved the web application's navigation, alert system, and user interface
- Rolled out software updates to BudgetSimple's 130,000+ activate users

PennCycle at University of Pennsylvania

February 2014 - October 2014

Developer and Webmaster - JavaScript, Python, HTML/CSS

- Developer and webmaster for PennCycle, a on-campus bike share startup overseeing the maintenance and distribution of 50+ bikes.
- Redesigned the homepage and added features such as bike gallery and real-time bike tracking using Google Maps API

Also worked as a Research Intern at University of Pittsburgh, Server at Walnut Grill, and Sales Consultant at Best Buy

Ongoing Work

PCNS Testing - solo contract project - Javascript (Backbone), PHP, PostgreSQL

- PCNS Testing is a web application that allows for creating and editing comprehensive, situation-based tests to be taken by University of Pittsburgh Medical School students and residents. The app also has thorough score-reporting features.
- In summer 2014, I built from scratch its interactive user testing application, Backbone is admin interface, PHP backend following REST API, and PostgresSOL database.
- I have since improved score-reporting, improved protection against cheating, and added support for pictures and video using S3.
- Deployed to penstesting.com. Went through months of beta-testing at Pitt before going live with its first iteration in July 2015.

Skills

Languages

- Advanced: Python, Java, JavaScript | Proficient: Bash, SQL, PHP, HTML/CSS | Beginner: Haskell, OCaml, C

Libraries/Frameworks

- Flask, Django, Dropwizard, Jersey, jQuery, Backbone.js, Node.js, Slim, Hadoop MapReduce

Software

- AWS (EC2, S3, DynamoDB), Vim, Git, Docker, Jenkins, Apache (Web Server, Maven, Spark), Heroku, Eclipse, Unix