

SOLOMON ASTLEY SOFTWARE ENGINEER

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Skills

LANGUAGES

Python
JavaScript
Java
PHP
SQL
HTML5
CSS3
C
Ruby

TECHNOLOGIES

Hadoop
Django
Kirby CMS
D3
Node.js
React
Ruby on Rails
Elastic Beanstalk

COURSEWORK

Algorithms
Cloud Computing
High Performance Computing
Operating Systems
Computer Architecture
Computer Networks
Applied Cryptography
Software Engineering

Employment

Novatia

Freelance Developer

Pittsburgh, PA
Jan 2018 to Apr 2018

- Rewrote the company's web app (running on a PHP/Perl/MySQL stack) using the more modern Django web server framework
- Added several key features including remote, private user media storage on AWS S3, user subscriptions via the Stripe API, and a custom D3 data visualization and exploration tool for user data

Airbnb

Software Engineering Intern

San Francisco, CA
May 2017 to Aug 2017

- Full-stack development on the booking team
- Rewrote a significant portion of the code behind the contact host modal to port the outdated Alt.js state management system to Redux
- Implemented a frequently asked questions feature within the contact host modal using data from an NLP analysis of guests' questions which significantly reduced the time between viewing and booking an Airbnb for guests with additional questions

MAYA Design

Software Engineering Intern

Pittsburgh, PA
May 2016 to Dec 2016

- Worked as one of two co-developers on two web applications: a user-friendly database portal for medical reserve corps (MRC) members and an interactive data visualization dashboard for a large offshore drilling company.
- Developed a caching system to minimize page load times due to high latency between servers and offshore rigs
- Created a custom, interactive graph to visualize offshore drilling depth and stages using D3

University of Pittsburgh

Research Assistant

Pittsburgh, PA
Sep 2015 to Mar 2016

- Wrote python scripts to streamline data generation and perform gradient descent calculations for molecular geometry optimizations.

Education

University of Pittsburgh

B.S. Computer Science 2017

GPA - 3.97

Projects

Poltr

Website for straw poll generation and sharing that focuses on UI and UX as the most important aspects. Site uses a Django web server and a PostgreSQL database and D3 for front-end data visualizations, deployed with AWS Elastic Beanstalk.

Blog

Personal blog I created to document some personal projects and coding tutorials. Site uses Kirby, a PHP-based content management system to back blog entries.

Awards

Drexel University · Dragon Hacks 2016 1st Place Winner

Jan 2016

Using OpenCV and a Microsoft Kinect, created a sign language interpreter to facilitate communication between deaf and hearing individuals with help from Twilio.

Kent State University · Fashion Tech Hackathon Best Tech Website

Mar 2016

Created a prototype Android application for retail stores that allows shoppers to scan the RFID tags on items in the store and purchase them from their smart phone. Later entered the idea into the Randall Family Big Idea Competition to win \$1,000.

Eagle Scout Award

Mar 2012