

# SOLOMON ASTLEY SOFTWARE ENGINEER

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## Skills

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### LANGUAGES

Python  
JavaScript  
Java  
PHP  
SQL  
HTML5  
CSS3  
C  
Ruby

### TECHNOLOGIES

Hadoop  
Django  
Flask  
Kirby CMS  
D3  
Node.js  
Apache Spark  
Hive  
React  
Ruby on Rails  
Elastic Beanstalk

### COURSEWORK

Algorithms  
Cloud Computing  
High Performance Computing  
Operating Systems  
Data Structures  
Systems Software  
Discrete Structures  
Computer Architecture  
Calculus 1/2/3  
Differential Equations  
Computer Networks  
Applied Cryptography  
Software Engineering

## Employment

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### Novatia

Freelance Developer

Jan 2018 to Feb 2018

Built a custom, interactive data visualization using D3 that allows clients to explore the results of Novatia's proprietary data analysis in the form of mass spectra.

### Airbnb

Software Engineering Intern

San Francisco, CA

May 2017 to Aug 2017

Full-stack development on the Booking Team.

### MAYA Design

Software Engineering Intern

Pittsburgh, PA

May 2016 to Dec 2016

Worked closely with designers as one of two co-developers on two full-stack web applications: a user-friendly database portal for medical reserve corps (MRC) emergency respondents and an interactive data visualization web dashboard for a large offshore drilling company.

### Selected Achievements

- Developed a caching system to minimize page load times due to high latency communication between servers and offshore rigs
- Created a completely custom, interactive graph to visualize offshore drilling depth and stages as functions of time using D3
- Produced high-quality code and applications that resulted in key future contracts for the company

### 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

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### University of Pittsburgh

B.S. Computer Science 2017

GPA - 3.97

## Projects

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### 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

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### 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.

### Rowan University · Prof Hacks 2016 Best Tech Website

Mar 2016

Developed a web application for self-driving cars that re-routes the car to the nearest hospital in the case of a medical emergency by reading the output from a Muse Headband.

### Eagle Scout Award

Mar 2012