

# SOLOMON ASTLEY SOFTWARE ENGINEER

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## Skills

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### LANGUAGES

Python  
JavaScript  
Java  
SQL  
HTML5  
CSS3  
Ruby

### TECHNOLOGIES

Django  
D3  
React  
Ruby on Rails  
Elastic Beanstalk  
AWS  
Redux

### COURSEWORK

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

## Employment

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### Airbnb

Software Engineer (L3)

Full-stack development on the Guest Booking platform

San Francisco, CA  
May 2018 to Current

### Novatia

Freelance Developer

- 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

Pittsburgh, PA  
Jan. 2018 to April 2018

### Airbnb

Software Engineering Intern

- 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- Rewrote a significant portion of the code behind the contact host modal to port the outdated Alt.js state management system to Redux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

San Francisco, CA  
May 2017 to Aug. 2017

### MAYA Design

Software Engineering Intern

- 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

Pittsburgh, PA  
May 2016 to Dec. 2016

### University of Pittsburgh

Research Assistant

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

Pittsburgh, PA  
Sept. 2015 to March 2016

## 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

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

Jan. 2016

### Eagle Scout Award

March 2012