

# ROQUE SOTO

## SOFTWARE ENGINEER

Address: 5740 Wilkins Ave., Apt #1R  
Pittsburgh, PA 15217  
Phone: (561) 859-4737  
E-mail: roquealbertosoto@gmail.com  
Website: www.roquesoto.dev  
LinkedIn: www.linkedin.com/in/roque-soto-castaneda  
Github: www.github.com/roqueasoto

## MY STORY

I'm a web developer with a diverse background in math and science looking for a software engineering position in Pittsburgh. My passion is in developing software that visually striking and a pleasure to use. To me, this means designing solutions that fit the needs of the clients or users while being simple to use and maintain with modern design and aesthetics.

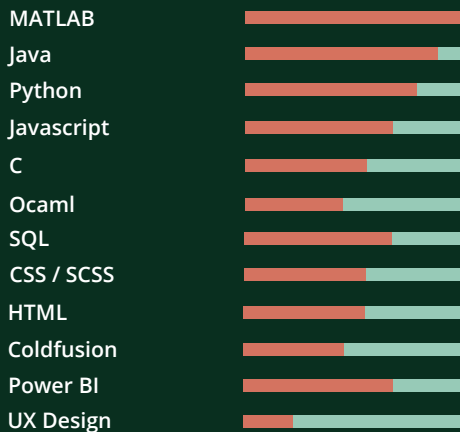
In my work as a developer, my rigorous math & science background have provided me with a flexible foundation from which to continue learning new skills as a software engineer. I have studied both object-oriented programming (Java, Python), functional programming (OCaml), and procedural programming (C). I've applied this knowledge by building a convolutional neural network (Python), writing a JavaScript-like interpreter (OCaml), and coding fundamental instructions on a model computer (C, Assembly). As a developer I've gotten to work closely with clients, implementing their feedback and responding to changing needs in an Agile Scrum environment. What I love most of all is hearing that I've improved the client's experience through the features I implement.

## PERSONAL

Age // 25 years

Nationality // American

## SKILLS



## LANGUAGES



## PROJECTS

Jul 2020 - Aug 2020

React Portfolio  
Website -  
Javascript

### DESCRIPTION:

- Built a portfolio website using Javascript & React
- Prototyped website for user feedback with Adobe XD
- Applied Bootstrap with SCSS to style & animate the page.

Apr 2019 - May 2019

Climate Change  
Visualizer - Java

### DESCRIPTION:

- Leading project team as implementation & design lead
- Implemented geocoding (user input of street address to get lat & lon) via OpenStreetMap and with gson JSON parser
- Applied Spring Boot micro service framework to deploy app online, with Thymeleaf & Bootstrap 4 for Front-end

Aug 2018 - Oct 2018

Photo to Doc  
Converter -  
Python 3

### DESCRIPTION:

- Developing a photo-to-document receipt scanner to track, archive, & organize business expenses efficiently
- Implemented with OpenCV computer vision library for photo-to-document conversion

Mar 2018 - May 2018

Ocamon! : Poke-  
Battle Game -  
OCaml

### DESCRIPTION:

- A 4-person team final project to develop a game w/ the Model View Controller architecture & using Github
- Main responsibilities included leading the design of the game & implementing a Gamma Pruning AI algorithm

## EXPERIENCE

Jun 2019 - Present

Web Developer -  
Arcadis

### RESPONSIBILITIES:

- Built & modernized web pages with JQuery, Power Bi, CSS Bootstrap, SQL and Coldfusion for a Project Management Info. System based on client feedback.
- Supported clients with debugging or coaching as needed.

Oct 2018 - Jun 2019

Geologist -  
Arcadis

### RESPONSIBILITIES:

- Collect, manage, & analyse soil, water & vapor data w/ Excel
- Prepare reports & figures for internal & client presentation
- Oversight, communication, & resolution of field operations
- Technical & admin. support for the Digital Solutions group

Aug 2016 - July 2018

Graduate Research  
Assistant -  
Cornell University

### RESPONSIBILITIES:

- Compile & manage seismic database for 403 earthquakes at 254 seismometers w/ Antelope Env. Monitoring Software
- Create & integrate scripts for quality control, filtering, analysis & plotting of seismic data in MATLAB

## EDUCATION

Jan 2019 - May 2021

M.S. Computer &  
Information Tech.  
(Planned) U. Penn.

### MASTER'S CLASSES:

- Topics covered include - Data Structures, Algorithms, Computer Systems, Computer Vision and Databases
- Group project Java app analyzing Philadelphia parking data

Aug 2016 - May 2020

M.S. Geophysics  
Cornell University

### MASTER'S THESIS:

"Seismic attenuation analysis of subduction zone volcanism in south-central Alaska." With Dr. Geoffrey Abers

Sep 2012 - May 2016

B.S. (Hons) Geology:  
Physics & Math  
Brown University

### HONORS THESIS:

"Imaging Rayleigh wave phase velocity beneath USArray using a Two-Station Method." With Dr. Colleen Dalton

## AWARDS

Undergraduate Teaching  
Research Award (UTRA)  
2014 & 2015  
Brown University

Induction to the Scientific  
Honor Society Sigma Xi  
2016  
Brown University

Deans Excellence  
Fellowship  
2016  
Cornell University

## INTERESTS

Volleyball // Cooking // Video Games // Pixel Art // Tabletop & Board Games