ROQUE SOTO

SOFTWARE ENGINEER

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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 // 27 years **Pronouns //** He/Him

Nationality // American

SKILLS

- MATLAB
- Java
- Python
- Javascript
- C
- Ocaml
- SQL
- CSS / SCSS
- HTML
- Coldfusion
- Power BI
- UX Design

LANGUAGES

- English
- Spanish
- French

EXPERIENCE

Jun 2019 - Present
Web Developer - Portfolio Insights Team at Arcadis

RESPONSIBILITIES:
- Led the integration of Angular into an existing Project Management Info. Sys. by modernizing a landing page to improve client experience ahead of a contract rebid
- Built a form to upload Excel Budgets to a SQL db with Bootstrap, JQuery & Coldfusion that improved site flexibility & saved hundreds of hours yearly for the clients & team
- Designed Power BI dashboard that auto-update based on SQL dbs, saving clients dozens of hours in quarterly figure production & identifying choke-points in their workflows.

Aug 2016 - May 2020
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

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

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