

Education

University of California, San Diego

B.S. Mathematics

June 2015

B.S. Physics

Work Experience

Software Engineer at Qualcomm Technologies

June 2020 – present

- Developed small testing base stations to test compliance with 3GPP protocols in the 3G, 4G, and 5G domains.

Backend Engineer at Bloom Health

October 2019 – January 2020

- Developed backend server software for Bloom Health's wellness iOS app.
- Leveraged AWS to run Swashbuckle server and process image data submitted by users.

Lead Software Developer at CureMetrix Inc.

August 2016 – February 2020

- Contributed to the successful FDA submission for a class 2 medical device, *cmTriage*.
- Packaged cancer detection software for deployment on Amazon Web Services (AWS).
- Maintained client accounts and ensured delivery of accurate and dependable results.
- Guided interns in developing features for our products, including status tracking and security upgrades.
- Maintained the integrity of training and testing data that included over 2 million medical images and pathology data.

Data Scientist at CureMetrix Inc.

November 2015 – August 2016

- Researched and implemented techniques to detect and classify anomalies in medical images using neural networks.
- Used TensorFlow to train CNN, FRCNN, and FCN networks.

Research Assistant (Intern) at CureMetrix Inc.

12 – 23 October 2015

- Assisted the CureMetrix research team with data curation and storage solutions.

Gymnastics Instructor at University of California, San Diego

2011 – 2018

- Planned and lead weekly classes for adults and children.
- KnockAround Camp counselor.

Canoe Guide at Northern Tier High Adventure Base, Ely, Minnesota

June 2011 – August 2011

- Planned and guided over 400 miles of canoe expeditions.

Software Development and DevOps

Certifications

CompTIA Network+

December 2020

Linux Security Fundamentals (LFS216) – The Linux Foundation

March 2017

Languages

C, C++, Python, Relational Databases (MySQL, SqlServer, PostgreSQL, SQLite)

Cloud Computing Platforms

Amazon Web Services (AWS): 4 years experience deploying client facing healthcare applications.

Google Cloud Platform and Digital Ocean: Familiarity with platforms. Used for personal projects.

Frameworks

Web and SaaS: Django, Flask, Swashbuckle, Apache Server, Nginx, LetsEncrypt

Containers and CI/CD: Docker, Ansible, Chef

Operating Systems

Experienced using with Debian based GNU/Linux.

Familiar with OpenSuse, ArchLinux, MacOS, and Windows based systems.

Volunteering

Eagle Scout

June 2009

Student Assistant Editor of the Journal of Double Star Observations (<http://jdso.org/>)

January 2014 - January 2015

Volunteer Dog Foster, Labs And More Dog Rescue, San Diego, CA.

October 2016 - December 2018

Cochair, Revelle Community Outreach

September 2011 - September 2012

Volunteer and Principal Member, Roger's Community Garden

2011 - 2015

Virtual Mentor and Coach at the Technica Hackathon, University of Maryland

November 2021