

Sean Marquez

capsulecorplab@gmail.com

Passionate about the democratization of science & technology in pursuit of accelerating humanity towards a post-scarcity space-faring civilization.

Experience

Tetra Bio Distributed

March 2020 - Present

DevOps Engineer & Technical Writer

Maintaining build pipeline for publishing documentation for open-source medical devices, using a docs-as-code approach.

Space Cooperative, Inc.

August 2017 - Present

Principal Investigator & Product Owner

Writing technical proposals for the NASA SBIR/STTR. Communicating with stakeholders to gather & specify software requirements. Verifying & validating software design against stakeholder requirements.

SolveCity

April 2017 - Jun 2017

Software Engineer

Researched personalized page rank algorithms and graph database schemes for developing a publication search engine for data scientists.

rLoop, Inc.

July 2015 - March 2017

Numerical Simulations & Control Systems Engineer

Developed 2D physics models & monte carlo simulations for analyzing trajectory dynamics and designing gain-scheduled PID controlled braking system for the hyperloop pod competition.

StrinKing Lacrosse, LLC

September 2015 - February 2016

Product Development Assistant

Designed custom testbeds & embedded software for product development team.

Max Q Systems, Inc

September 2015 - February 2016

Associate Mechanical Design Engineer

Maintained technical drawings and facilitated configuration management for OEM product line.

Education

University of California, Irvine | 2013 | Bachelor of Science (B.S.), Mechanical Engineering, specializing in design of dynamic systems

Skill Summary

Industry Knowledge

Software Engineering, Technical Writing, Open-Source, DevOps, Agile Software Development, Data Science, Project Engineering, Product Development, Aerospace, Model-Based Systems Engineering, Space Mission Analysis & Design.

Tool Proficiency

Git, GitHub, Linux, Ubuntu, Vim, Bash, Docker, Python, Markdown, AsciiDoctor

Organizations

Planetary Society, Learn Teach Code, San Gabriel Valley Linux Users Group, Write The Docs