Sean Marquez

capsulecorplab@gmail.com
https://github.com/capsulecorplab

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 requirments.

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.

Language Proficiency

Bash, Python, Asciidoc

Tool Proficiency

Git, GitHub, Linux, Ubuntu, Vim, Docker, Hugo, AsciiDoctor, PlantUML

Organizations

Planetary Society, Learn Teach Code, San Gabriel Valley Linux Users Group, Write The Docs, SysML v2 Submission Team (SST)