

Peter Mulard

petermulard.me

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Experience

JBT Corp. - Software Engineer

San Francisco, CA

Feb 2021 – present

- Wrote Python microservice to batch process SQL data from client machines to JSON in Azure IoT Hub
 - Handles hundreds of SQL table types; only requiring changes to a few lines in a config file
 - Data is broken into smaller chunks, when needed, to optimize IoT Hub message payload limits and costs
- Containerize various applications with Docker; deploying and maintaining them in Microsoft Azure
- Built CI/CD pipelines with GitHub Actions for IoT app containers hosted in Azure
- Organize biweekly team-building sessions, where members take turns teaching a technical concept; for example, a technology they are interested in or are working with, software engineering fundamentals, coding challenges, etc.

c0d3.com - Software Engineer | *Open Source*

San Francisco, CA

Jul 2020 – Feb 2021

- Worked full-stack on applications teaching end-to-end javascript fundamentals for hundreds of students
- Implemented feedback UI that tracks and displays users' progress as they complete projects
- Maintained and improved central frontend code (React, Typescript) for user profiles and project submissions
- Mentored students as they progressed through the curriculum with resources, feedback and guidance

Commissioning Agents Inc. - Validation Engineer

San Francisco, CA

Jul 2019 – Sep 2020

(Sabbatical) - Wilderness backpacking and photography

Continental US

May 2018 – Jun 2019

Mapal Inc. - Team Lead

Detroit, MI

Jan 2018 – Apr 2018

- Mechanical Engineer

Detroit, MI

Jan 2017 – Jan 2018

Industrial Sales & Manufacturing Inc. - Engineering Tech.

Erie, PA

Oct 2015 – Jan 2017

Education

City College of San Francisco

San Francisco, CA

Aug 2019 – May 2020

- Associate of Science in Computer Science

Gannon University

Erie, PA

Aug 2012 – May 2016

- Bachelor of Science in Mechanical Engineering
- Lead Writing and Research Tutor, Department of Writing and Research
 - Mentored 5-10 tutors and served as the lead resource for 100-200 students per semester
 - Developed and taught tutoring strategies; led tutoring efforts for graduate STEM students

Projects

Algorithm Visualizer

Interactive web-app displaying sorting algorithms in real time

- Designed a React UI and hosted on a raspberry pi web server

NBA Data Visualization

Data tool for scraping and analyzing NBA statistics from the web

- Developed data analysis of player tendencies using a heatmap matrix
- Efficiently scrapes only when needed, to avoid IP bans

Moon Phase Calculator

Web-based tool for calculating and visualizing moon properties

- Created a React UI with various moon animations

More projects and information available at github.com/pmulard

Skills

Languages

Javascript, Python, Java

Technologies

React, Node.js, Express, Redux, MongoDB, HTML/CSS3, SQL Server

Cloud/DevOps

Azure, Bash, Linux, Docker, Github

Interests

Cooking, Wilderness backpacking, Landscape photography, Reading half a book then jumping to another