Peter Mulard

petermulard.me

github.com/pmulard

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Experience

JBT Corp. - Software Engineer *San Francisco, CA* Feb 2021 – Nov 2022

- Designed and wrote Python microservice to batch process SQL data from client machines to Azure IoT Hub.
  - Replaced a paid third-party application, saving thousands of dollars monthly in licensing and fees.
  - Deployed to production for five customers and used on 30+ client machines.
  - Built with scalable and concurrent architecture; handled all data requirements (100GB and 400K requests daily).
- Containerized applications with Docker; deploying and maintaining them in Azure and physical machines.
- Automated CI/CD pipelines for repositories used by 15+ engineers, using GitHub Actions and Azure DevOps.
- Organized 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 - Full Stack Software Engineer | *Open Source* *San Francisco, CA* Jul 2020 – Feb 2021

- Developed front-end components, REST API calls, and tests rolled out to hundreds of users.
- Implemented features that track and display users' progress as they complete projects.
- Maintained and improved central frontend code for user profiles, mainly with JavaScript, React, and Jest.
- Gathered UI feedback from users and implemented changes with a customer-centric approach.

Mechanical Engineer *Detroit, MI & San Francisco, CA* Oct 2015 – Jul 2020

- Created industrial tooling for automotive manufacturing and validated biotech machinery for pharmaceuticals.

Wilderness Backpacker & Photographer *Continental US* May 2018 – present

- Photographed deep wilderness across the US; the first year living full-time out of my car. Sold $500 of prints.

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

Projects

Data Structures and Algorithms Guide

- Reference for common data structures and algorithms, with 30+ implementations in JavaScript, Python, and Rust.

NBA Data Visualization Tool

- Python program that scrapes NBA statistics from the web, then visualizes the data with pandas and Matplotlib.

Moon Phase Calculator

- React based web-app visualizing the moon's phase and other related data, based on location (google maps API).

Certifications

Machine Learning Specialization - Stanford University May 2023

- Supervised learning (regression, classification, neural networks, decision trees) and unsupervised learning (clustering, dimensionality reduction, recommender systems).