

# Peter Mulard

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San Francisco, CA

## Experience

### MotoMemo - Founder

San Francisco, CA

Jan 2025 – present

Rust | Typescript | React | Docker

- Complete ownership as a solo founder, building a web application for motorcycle enthusiasts to customize and track maintenance, modifications, and specifications.
- Deployed and self-hosted on a Raspberry Pi, handling up to 15,000 concurrent requests/sec for the backend API, while simultaneously running a reverse proxy, Postgres, and Next.js.
  - Configured a local DNS server and reverse proxy to securely expose the app and my router to the public.
- Built an ergonomic docker-compose CI/CD pipeline to locally and remotely deploy dev/staging/prod changes.
- Implemented infrastructure typically abstracted by cloud providers, such as automated database backups.

### Nexandria - Founding Software Engineer

San Francisco, CA

Aug 2023 – Mar 2025

Rust | gRPC | Kubernetes | Google Cloud | Ethereum

- Led the design and implementation of a flagship feature instrumental in onboarding our first three clients.
- Built asynchronous and multithreaded distributed systems from conception to production, along with public APIs.
  - One service in particular powered an early customer's main product.
- Architected designs by writing design docs and continuously soliciting feedback from peers, which led to scalable and robust software (reduction in data races, reusable code, etc.).
- Wrote highly performant Rust code, often using embedded storage, to increase read/write speeds by up to 6x.
- Responsible for the maintenance of 20+ services deployed to Kubernetes in Google Cloud.

### JBT Corporation - Software Engineer

San Francisco, CA

Feb 2021 – Nov 2022

Python | Azure | Docker | SQL | CI/CD

- Designed and wrote a Python service to batch process SQL data from physical machines to Azure cloud.
  - Replaced a paid third-party application, saving thousands of dollars monthly in licensing and fees.
  - Built with scalable and concurrent architecture; handled all data requirements (100GB and 400K requests daily).
- Containerized applications with Docker on Azure; collaborated with the Data Science team to deploy ML models.
- Automated CI/CD pipelines for repositories used by 15+ engineers, with GitHub Actions and Azure DevOps.

### c0d3.com - Full Stack Software Engineer

San Francisco, CA

May 2020 – Feb 2021

JavaScript | React | REST

- Developed front-end components with JavaScript and REST API calls with node.js, deployed to hundreds of users.
- Created features visualizing user progress through the company's content with TypeScript and React.
- Increased unit test coverage of 16 widely-used React components by an average of 20%, with Jest.

## Education

### Gannon University

Erie, PA

Aug 2012 – May 2016

- Bachelor of Science in Mechanical Engineering

## Certifications

### Machine Learning Specialization - Stanford University

May 2023

- A three-month technical course in supervised learning (regression, classification, neural networks, decision trees) and unsupervised learning (clustering, dimensionality reduction, recommender systems, reinforcement learning).