

# Joe Mitzman

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[github.com/joemitz](https://github.com/joemitz)

Full Stack Software Engineer

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## Technical Skills

**Frontend:** JavaScript, React, React Hooks, Redux, jQuery, HTML, CSS

**Backend:** Node.js, Python, NGINX, Redis, MySQL, PostgreSQL, MongoDB

**Development:** Git, Docker, Webpack, Babel, Mocha, Jest, Supertest, K6

## Software Engineering Applications

Atelier QA Service | Software Engineer | [github.com/qa-service](https://github.com/joemitz/qa-service)

2022

Backend microservice designed to handle high traffic loads

- Scaled system architecture across **23 AWS instances** to handle loads over **10,000 RPS** by scaling horizontally with Docker
- Architected three **NGINX** load balancers in a **triangular configuration** to evenly divide traffic between parallel systems
- Deployed **dockerized** containers to scale my **Node** application across 8 instances
- Configured two **PostgreSQL** servers in **streaming replication** mode to balance read queries across 2 databases
- Cached the entire database's read query results with duplicate **Redis clusters** to increase **average response time by 50%**

Atelier Frontend | Software Engineer | [github.com/project-atelier](https://github.com/joemitz/project-atelier)

2022

React-powered storefront designed to conform to client requirements and wireframe

- Designed a **React Higher-Order Component** to respond to a mid-project client request to **track user interactions**
- Orchestrated frontend requests using an **Express wildcard endpoint** to route paths to applicable API endpoints
- Minified **Webpack** bundle, compressed with **Brotli**, and zipped CSS to **increase page load speed from 2.6s to 0.7s**
- Built a Product ID **validation system** with **Node** and **Axios** that queries the API before responding to a client's page request

## Professional Experience

Audio Engineer | Freelance

2008 - Present

- Managed a portfolio for **high profile clients** such as The San Francisco Giants, Union Bank and PBS
- Took **decibel measurements** to determine placement of sound absorption panels
- Diagnosed signal noise by **mapping signal paths** and testing isolated section
- Organized **large scale productions** consisting of 100's of simultaneous audio channels

Digital Support Technician | Manteca Unified School District

2015 - 2020

- Wrote **batch scripts** to automate software troubleshooting, configuration and updates
- Managed computers and network users remotely via **network interfaces**
- Used **software performance tools** to evaluate memory, CPU, network and storage metrics
- Designed resource scripts to export **aggregated data** from inventory databases
- Utilized **terminal commands** to execute elevated system tasks

## Education

Hack Reactor | Advanced Software Engineering Certificate

2021 - 2022

San Francisco State University | Bachelors Degree, Audio Engineering

2008 - 2012

Sacramento State University | Computer Science

2006 - 2008

## Personal

When I'm not working or studying, you can find me tinkering with my home lab, building computers, traveling or writing music.