

< Recent Builds

Blue Ocean

Docker, Ansible, Testing Framework, MySQL,

- Built a full-stack inventory monitoring web app.
- Used nginx and query optimization to minimize latency and maximize RPS handled.
- Built ETL pipeline, DB, API microservice, connected to client, deployed, then scaled.
- Wrote e-commerce application frontend and connected to custom backend solution.

Atelier E-Commerce

Node.js, Express, MongoDB, AWS, NGINX, K6, React.js, Webpack

- Scaled a monolithic system to handle increased network traffic from clients.
- Used horizontal scaling and query optimization to meet & exceed client agreement.
- Built ETL script, DB, microservice API, connected to client, deployed, then scaled.
- Wrote e-commerce web app frontend and connected to custom backend solution.

Machine Data

Python, TensorFlow, Apache Spark, PyTorch

- Used Apache Spark to process batch streams using this cool pipeline.
- Trained neural net to predict with 98% accuracy the tumors found in the dataset

Bear Maps

Java, Spark, OpenStreetMapsAPI

- Wrote Java backend for a Google-Maps-style shortest route mapping application.
- Used the A* heuristic shortest path algorithm in conjunction with a custom-built min-heap to efficiently route the user to their destination.
- Leveraged the trie data structure for point of interest search autocompletion, a K-D tree for finding the closest node on the map, and built an API router

< Education

Hack Reactor	(1 yr) 2022 - 2023	Full-Stack Software Engineering
UC Berkeley	(4 yr) 2017 - 2021	Data Science Bachelor's

< Industry

Cibus	2021 - Present	Senior LIMS Research Associate
--------------	----------------	---------------------------------------

- Scaled Trait Machine efficiency 4x by leading internal testing and integration of L7's ESP App. Collaborated with external application engineers and internal research managers to design user requirements, test builds, and implement the solution.
- Led initiative to bring Power BI into production. Collaborated with external BI team to design and build reports for end-users. Used the PostgreSQL DB behind the LIMS.

SigmaPoint Technologies	2020	QMS Engineer Co-op
--------------------------------	------	---------------------------

- Retired silo'd QMS app (Lotus Notes) by configuring PLM module with QMS processes
- Built automated QMS metrics & KPI monitoring dashboard within Microsoft D365