

# Raymond Lang

San Francisco, CA

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## SKILLS

Python, React.js, SQL, Node.js, Express.js, MongoDB, JavaScript, jQuery, Redux, Git, HTML5, CSS3, Webpack, Heroku, TDD, Docker, Object Oriented Design, Google Analytics 4, Salesforce

## PROJECTS

### Tripster (MongoDB, Express, Node.js, React/Redux)

*Live | Github*

Single-page application with interactive messenger that allows registered users to plan trips with other users with ease and organization

- Generated fully specified backend built with **Node.js**, **Express.js** and **MongoDB**
- Devised **data structures** in **MongoDB** to ensure trip pages were private, granting authorized user permission to add users, comments, and itinerary items
- Integrated **Redux Toolkit** unidirectional data flow to create predictable, normalized state and **reliable DOM rendering** for efficient load access to trips based on logged-in user

### Connectify (MongoDB, Express, Node.js, React/Redux)

*Live | Github*

Web application inspired by Facebook that allows users to share posts and interact with friends

- Developed full stack social media application using **MERN (MongoDB, Express.js, React, Node.js)** stack
- Created top-level authentication component, using **JWT** and custom authentication logic to dynamically allow user access
- Implemented a flexible, customizable **MUI** color theme system, with support for **dark mode** to enhance visual appeal

### Postflow (FastAPI, Python, Pytest, Docker)

*Live | Github*

RESTful API using FastAPI integrated with PostgreSQL for efficient data storage and SQLAlchemy for precise ORM handling

- Formulated **25+** automated test scripts to test application front-end using **Pytest** framework
- Dockerized **microservices** and set-up **Jenkins CI/CD** pipelines to automate build and **Heroku** deployment process

### Propeak (FastAPI, Python, Pytest)

*Github*

Scalable API using FastAPI with rigorous Pytest unit tests

- Developed and implemented scalable FastAPI **API** for fitness company used by **3,000** users, employing **hexagonal architecture**
- Designed **40+** unit and integration tests utilizing **Pytest** framework for robust deployment

## PROFESSIONAL EXPERIENCE

### Marketing Analyst

*Mar 2021 – present*

Precision for Medicine

- Developed centralized **Power BI** dashboard utilizing **SQL** to streamline execution management for **100+** users and integrated real-time insights with **DynamoDB**
- Wrote **Python** scripts to efficiently extract and process **100+** codes from a **data lake**, seamlessly integrating then into a pipeline for subsequent extraction and analysis, streamlining data workflows and enhancing data utilization for market analysis
- Increased user engagement **20%** by using **Google Analytics** to implement customer segmentation strategies

### Quality Improvement Analyst

*Mar 2018 – Aug 2019*

Department of Public Health, San Francisco

- Designed **Excel** models to analyze datasets with **100K+** points with characteristics in operations and fiscal policy
- Produced **PowerBI** dashboards to monitor month-to-month resource allocation by department
- Assessed resource utilization of program serving **500+** persons experiencing homelessness, saving **20+ staff 1.5K+ hours/year**

## EDUCATION

### App Academy Open

*Jan 2023*

Rigorous online 1000-hour course full-stack web development course

- Topics: SQL, React, JavaScript, Git, Github, Express, MongoDB, NodeJS, Webpack, TDD, OOP, REST, and security

### Boston College

*Magne Cum Laude*

B.S. in Molecular Biology

- Information Visualization, Bioinformatics, Statistics

### University of California, San Diego

*Incomplete, 2019*

Doctor of Medicine candidate