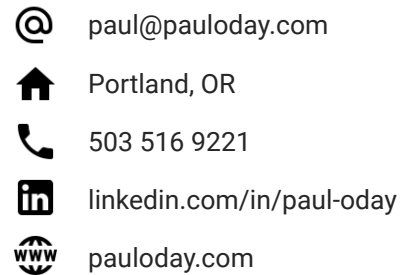


PAUL O'DAY

SOFTWARE ENGINEER



SKILLS

Languages

Javascript (ES6+),
Typescript, Rust

Front End

React, Redux, Next.js,
jQuery, Re-Frame,
HTML5, CSS3

Back End

Node.js, Express,
GraphQL, Hapi.js
Docker, Linux, Bash

Testing

Jest, Enzyme, Mocha

Databases

MongoDB MSSQL,
mysql, PostgreSQL

Cloud

EC2, S3, CircleCI,
Vercel

EDUCATION

Hack Reactor, 2020

Advanced Software
Engineering Immersive

Pacific University, 2012

Computer Science

EXPERIENCE

Software Engineer

Northwell Health | New York, NY (Remote) | 2020-2024

Used **React**, **React Native**, **Node.js** to make **accessible** mobile interfaces for healthcare

- Implemented UI/UX to help patients manage appointments using **React** and **React Native**
- Maintained a backend service layer on top of a **SOAP** backend, using **Node** and **GraphQL**
- Planned and delivered features in a **remote, agile** dev process
- Deployed and managed code through a 3 environment testing process using **Azure** and **Docker**

Software Engineer

Pacific University | Forest Grove, OR | 2017-2020

Used **React**, **React Native**, **Agile dev processes** to manage client projects from idea to MVP

- Worked with clients and designers to scope ideas and develop them into app prototypes

Full-Stack Developer

Active911 | Philomath, OR | 2014 - 2017

Worked at all levels of a **Docker**, **mysql**, **Perl**, **PHP**, **Javascript**, **Java** stack to help scale from 250,000 to 500,000 users

- Converted **PHP** and **Perl** backend from a **Monolithic** architecture to a **Service-oriented** one using **Docker**, **Docker Swarm**, and **Nginx**
- Managed **Android** app including feature development, bug fixes, beta management, and production deployment

APPLICATIONS

Quasicrystal Generator github.com/ertdfgcb/quasicrystals

A **Rust** program to generate images and videos based on quasicrystal structures

- Translated a codebase from **Haskell** to **Rust** for optimization and ease of adding features
- Implemented a complex parser and **multithreading** for a 5-10x performance increase

Latitude github.com/Seattle-Cartographers/imageMain-paul

Replaced a backend, enabling **horizontal scaling** to handle production level traffic

- Ensured fast, fault-tolerant access to over 10 million records using **Cassandra**
- Scaled the backend with **Docker** and **Nginx** to reduce response time under load from 1200 milliseconds to 14 millisecond, a decrease of 850%
- Tested a load of over 1000 requests per second with **K6** and **Loader.io**

HomeAway github.com/Team-Danger/FEC-Description-Component

Open source **single-page application** for browsing vacation rentals

- Made a responsive, intuitive, and easy to extend user interface using **React**
- Implemented fast and robust data storage with **MongoDB** and **Mongoose**
- Utilized **Jest** and **Enzyme** for **test driven development**, enhancing productivity and ensuring a consistent, bug free user experience as features are added
- Devised a scalable and bug free deployment process with **Docker** and **AWS EC2**