

JAVAN POHL

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PROJECTS

Portfolio Website | Built a personal portfolio website (javanpohl.com) to highlight my past and current projects

- Built with Next.js for its excellent handling of multi-page apps
- Entire site is optimized for mobile viewing
- Developed custom CSS for neon effect

System Design Capstone | Repurposed legacy back-end codebase for a travel destination website to switch from a non-relational database (MongoDB) to a relational system (PostgreSQL)

- Seeded the database with 50 million records via an automation script that utilized compartmentalized, asynchronous function calls to reduce RAM utilization
- Implemented PostgreSQL pool connections and clustered indexes to reduce latency
- Structured the database to achieve 3rd normal form to minimize duplication of data

Front-end Capstone | Developed a microservice application for a short-term rental website utilizing dynamically rendered React components populated by information from a MongoDB database through an Express server

- Custom-built the CSS and logic for a calendar module with a streamlined UX design that simplified the selection of check-in/check-out dates
- Spearheaded the effort throughout the project to synchronize the team's modules by implementing React-router and ensuring the front and back ends of each module adhered to the same data structure
- Designed calendar data architecture and look-up algorithms to achieve O(1) time complexity
- Deployed app to AWS on multiple EC2 instances

WORK HISTORY

Code For Denver — Denver, CO

2021 - Current

Volunteer

- Refactored the CSS for their COVID-19 Dashboard to optimize the bar graphs for mobile viewing
- Built functions to normalize the data received by the APIs by ensuring all object keys were lowercase

FIXNCELL — Westminster, CO

2014 – 2020

Owner / Operator

- Launched, managed, and operated cell phone repair business including custom website design, development and deployment, as well as computer, inventory, and CRM systems set-up and management
- Designed, built, and maintained the business website with focus on mobile-friendly responsive flex-box design

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES — Denver, CO

2006 – 2014

Lead Compliance Auditor, Office of Inspector General / Office of Audit Services

- Developed in-house SQL methodology to identify hospitals that were overpaid by Medicare for high-cost patient visits, resulting in \$71M in returned payments and \$425M in potential savings for further evaluation

EDUCATION

Hack Reactor | Accelerated Software Engineering Immersive | Student and Mentor

2020 - 2021

Colorado State University - Pueblo | B.S. in Accounting | Minor in Computer Information Systems

2002 - 2006

TECHNICAL SKILLS

JavaScript, jQuery, React, Redux, Advanced CSS, Rest APIs, MongoDB, Mongoose, MySQL, Sequelize, HTML, Perl, Jest, CircleCi, Mocha, Docker, Next.js, vim, regex