www.github.com/alexjhanson
www.alexhanson.biz

Alex Hanson

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Education

Western Governor's University   **JAN 2023**

- **Major:** Computer Science
- **Certificates:** CompTIA Project+, General Assembly Full-Stack Developer (MERN)
- **Programming Coursework:** Algorithms & Data Structures II, Software Engineering, Software II – Advanced Java Concepts, Intro. To Artificial Intelligence, Discrete Mathematics II, Operating Systems for Programmers.

Skills

Java 11, Maven, JDBC, JUnit5
HTML5, CSS3, JavaScript, Jest, Node.js, Express, REACT
Python, Flask, Django
MongoDB, MySQL
Git, Docker, Microservices Architecture, MVC, Gang of Four Design Patterns

Software Projects | samples and demos at my domain

Full stack REACT app with python machine learning API: Dec 2022

Capstone project for computer science bachelor's degree

Data analytics dashboard for fictional hotel company: Machine Learning to predict cancellations.

- Created express server that provides REACT bundle, API routes to machine learning functionality, MVC architecture to create new test data.
- Used REACT and Chart.js library to provide UI and data visualization tools.
- Implemented a Logistic Regression Machine Learning model using the numpy, pandas, and scikitlearn python libraries. The model was used to predict reservation cancellations for a fictious hotel company.

Java GUI application: Nov 2021

Software engineering II project

Built CRM dashboard according to business requirements docs and other project design artifacts.

- Used advanced Java language features to simply code design and implementation- lambdas, function references, streams, design patterns, functional programming.
- Created using MVC architecture.

Full stack (MERN) Application: May 2020

General Assembly Bootcamp project

Implemented a Hotel PMS as a full-stack web application using the MERN stack. Created various project artifacts such as ERDs and task charts.

- Crated UI with REACT.
- Implemented a server with REST API endpoints using express framework.
- Stored records in MongoDB.