Joshua Chow

Full-stack Software Engineer

- **Denver, Colorado** • **linkedin.com/in/thejoshchow** • **thejoshchow.github.io** • **github.com/thejoshchow**

TECHNICAL SKILLS

Programming Languages | Python 3, JavaScript ES6+, SQL, HTML5, CSS
System Design | Monoliths, Microservices, Domain-driven design, CI/CD
Back-End | Django 4, PostgreSQL, MongoDB, Flask, Apache Spark, FastAPI
Front-End | DOM manipulation, Websockets, React, Redux Toolkit, Vue, Vite
Machine Learning/Data Science | sk-learn, NLP, tensorflow, statistical analysis, hypothesis testing, pandas, numpy, matplotlib
General | Git, Docker, Linux, AWS Cloud services, Agile workflow

PROFESSIONAL EXPERIENCE

Frontend Software Engineering Intern | Predicate Group   Jan '24 - Aug '24

- Implemented frontend software for sales data & metric driven application using Vue.js, JavaScript, HTML/CSS
- Demonstrated expertise in designing & implementing various data visualization solutions, including dashboards, bar charts, & line graphs, for retail, wholesale, & online sales channels

RELEVANT PROJECTS

Frontend Application | Predicate

javascript, vue.js, vite

- Integrated real-time data visualization using charting libraries to compare month-to-date, last month, and last year's sales performance
- Implemented modular, reusable components to create sections for financial reporting (sales & profit, forecasting) and product performance analysis
- Ensured the application followed best practices for performance optimization, including lazy loading and caching mechanisms
- Utilized API integration to fetch and display data in a user-friendly interface, improving the efficiency of sales analysis for businesses

Full Stack Application | Travel Buddy

postgresql, python, fastapi, javascript, react, react-router, redux toolkit

- Designed a postgres database schema consisting of 7 tables with various foreign, primary key relations
- Created and deployed a FastAPI backend service with 27 RESTful API endpoints, secured using JWT tokens
- Hand-built frontend authentication and authorization solution utilizing React components and RTK Query
- Wrote a suite of unit tests for 27 API endpoints along with a robust CI/CD pipeline to ensure smooth integration and deployment

Data Science | Yoga for Anything

pandas, gensim, nltk, sci-kit learn, aws, mongodb

- Applied natural language processing techniques to access YouTube's API & create a mongoDB database of video metadata
- Built a Flask web app using HTML/CSS to serve users a selection of yoga videos based on their chosen topic or search term
- Deployed project onto an AWS EC2 instance

EDUCATION

B.S. Computer Science | Western Governors University   Dec '25

Advanced Software Engineering Program | Hack Reactor   Feb '24

- 19-week Software Engineering immersive covering the foundations of modern web software engineering and centered around Python back-end and Javascript front-end development. Implements a variety of back and front end libraries and frameworks with an emphasis on React.
- Graduated top of class and elected as class speaker

Data Science Immersive | Galvanize   Jan '21