Joshua Chow

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FULL-STACK SOFTWARE ENGINEER

Software engineer seeking to change the world one line at a time. Bridging together my experience in leadership and teamwork from the Marine Corps, digital marketing and customer-centric roles. The ability to impact the lives of many with the simple click of a button drives my desire to build innovative, scalable and user-friendly systems.

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

RELEVANT PROJECTS

Travel Buddy | Full Stack   Jan '24

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 a full 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

CarCar | Full Stack   Dec '23

django, react, react-router, postgres

- Leveraged **django** to build out RESTful API endpoints for three separate microservices: inventory, service and sales
- Streamlined data display & implemented responsive design & data visualization using **React & Bootstrap** to construct a single-page-application for displaying & manipulating data served by django services

Yoga for Anything | Data Science   Jan '21

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

PROFESSIONAL EXPERIENCE

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

- 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

EDUCATION

Hack Reactor | Advanced Software Engineering Program   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.

Galvanize | Data Science Immersive   Jan '21

- A 13-week immersive, 700+ hours of coding, Python-based curriculum that is focused on machine learning and best practices in statistical analysis, including frequentist and Bayesian methods utilizing regression, classification, and clustering to model real-world structured and unstructured data. Explores NLP and Deep Learning techniques, in addition to Spark on AWS