

# Joshua Chow

Full-stack Software Engineer

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## 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

### Client Services Manager | TruTailorCo. Custom Suits Inc.

Jun '19 - Aug '23

- Managed the build-out and expansion of a new retail store in a new market, bringing in and retaining new clientele, increasing company-wide yearly revenue by over 30%
- Managed and facilitated the transition to a new CRM and inventory management product, resulting in a reduction of remakes by over 50% and an increase in consultant efficiency (pertaining to order input)
- Built a data-driven model to provide guidance for bespoke measurements to 92% accuracy

## 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 & created 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