

# 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, Exploratory data analysis

**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, Agile workflow

## RELEVANT PROJECTS

### Travel Buddy | Full Stack | [gitlab/thethirteen/travelbuddy](https://gitlab/thethirteen/travelbuddy)

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, protected by OAuth2 and secured utilizing JWT tokens
- Utilizing **React** components and **RTK**, hand-built an authentication solution to handle user login that persists through browser refresh

### CarCar | Full Stack | [gitlab/project\\_beta](https://gitlab/project_beta)

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 | [github/youtube\\_yoga](https://github.com/youtube_yoga)

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

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

Jul '19 - Aug '23

- Implemented and maintained a new CRM designed for the custom suiting industry resulting in a *20% increase* in staff productivity
- Oversaw and led the expansion of a new retail store, leading to an increased overall revenue of 30%

## 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