

Jacob Gifford *Full Stack Engineer*

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🖱 https://jgifford.dev 🌐 GitHub

Projects

Gradient Fitness

React, Typescript, TailwindCSS, PostgreSQL, Chart.js, Express.js

- Collaborated with fitness professionals to determine and design useful analytics for strength training
- Created robust charts using public datasets and medical research, allowing professionals and hobbyists to gain a deeper and more accurate understanding of their physical strength
- Utilized PostgreSQL with Prisma to quickly analyze and aggregate large datasets for statistical analysis

Symphony

React, Typescript, TailwindCSS, MongoDB, Socket.io, Express.js

- Full stack Discord clone utilizing web sockets for instant messaging with an Express.js server
- Utilized Photoshop and Framer Motion to develop a beautiful and performant login UI
- Featuring private and public rooms, markdown plugin support, and general user statistics

Battleship

Javascript, Typescript, Jest, Socket.io, Express.js

- Created the classic battleship game with UI improvements and uniquely tailored special abilities
- Implemented an online PvP mode using a web socket server for real-time communications
- Maintained a suite of unit tests, ensuring code quality and functionality

Open Source Contributions

The Odin Project

- Curriculum: Overhauled the CSS Foundations sections, reorganizing and enhancing lessons
- Curriculum: Provided input on and helped write new Node.js, and SQL lessons
- Minor: Fixed minor bugs and typos, and improved statements for clarity and accessibility

Professional Experience

Full Stack Engineer

2023 – present | San Francisco, California

Freelance

- Designed, planned, and delivered robust single-page applications for clients within reasonable time-frames
- Provided clients with publishing options, bundled, deployed and maintained their applications
- Communicated regularly with stakeholders, reporting the state of the application and collaboratively determining new features and ideas to implement

Homeroom Teacher

2022 – 2023 | Shanghai, China

Jimei KRK

- Utilized my development skills to establish a local real-time streaming server showing live drone footage
- Effectively planned, and coordinated large-scale academic events for the school resulting in an overall 15% increase in literacy among students aged 3 to 7 over a one-month period
- Organized graphics design, budget, catering, and hosted social events accommodating ~400 attendees

Undergraduate Researcher

2016 – 2018 | West Lafayette, Indiana

Chopra Laboratory

- Modeled molecules and predicted interactions using an in-house computational model
- Quantified results, interpreting data with Python and R, to develop a broad protein interactome

Education

Purdue University

2020 | West Lafayette, USA

B.S. Chemistry (conc. Biochemistry)

The Odin Project

Remote

Full Stack Development

Skills

Languages

Typescript, Javascript, Python, HTML, CSS

Frameworks

React, TailwindCSS, Next, Express, Node

Tools

MongoDB, SQL, PostgreSQL, Prisma, Socket.io, Mongoose, Jest, Vite, Git, Postman

Technologies

RESTful API, Framer Motion, Photoshop, React Query, React Router, WebSockets, Lightroom