ANDREW SPIVEY

Software Engineer

Oakland, CA | 12spivey@gmail.com | [LinkedIn](#) | [Github](#) | [Portfolio](#) | 510.862.6309

Versatile Full Stack Software Engineer with a strong foundation in frontend and backend development. Proven ability to architect and deliver high-quality, scalable web and mobile applications for professional clients. Highly adept at problem-solving, with a passion for continuous learning and applying new technologies to build user-centered solutions.

Languages: JavaScript (ES6), Typescript, Python, HTML, CSS, SQL

Frameworks/Libraries: React, React Native, Node.js, Express.js, Flask, Django, Jest, Pytest

Additional Skills: MongoDB, PostgreSQL, RESTful API development, unit testing, Git, Docker, Agile methodologies

EXPERIENCE

Software Engineer, Giorgi Enterprises, Oakland, CA (Remote) *July 2023 - present*
- Led development of Genius Drills, a mobile application built for a math education company serving thousands of students, teachers, and administrators with K-12 math drills. Wrote over 90% of the entire codebase.
- Architected API models, endpoints, and services using Flask, securely managing user and class data, drill generation, scoring, results and charts tailored to the client's security, performance, and scalability needs.
- Built interactive dashboards, visualizations, and tutorials with React Native and Typescript, providing teachers with real-time insights into student performance and offering students engaging and clear drill experiences.
- Developed classwork drill assignments using web sockets, enabling live monitoring and control for teachers.
- Optimized performance by leveraging React Query's caching strategies, reducing unnecessary API calls by 95%.
- Wrote and maintained 300+ unit tests with Jest and Pytest, reducing reported bugs and increasing app reliability.

React Developer, Bitwise Industries, Oakland, CA *June 2021 - January 2023*
- Implemented high-impact features and resolved critical bugs for a client's scheduling application using React and Django, contributing significantly to the project's success while playing a key role on a professional dev team.
- Enhanced scheduling efficiency by developing a calendar feature, saving the client's scheduling department approximately 10 hours per week with accurate, real-time portal updates.
- Actively participated in client meetings to clarify issues and demo features, only junior developer to do so.
- Led a React.js course for company's Workforce Training Program with 13 students in total.

Frontend Developer - Freelance, East Bay Recorders *Nov 2021 - Jan 2022* **-** [Live Site](#)
- Created, deployed, and maintained a mobile-responsive website for a Grammy-winning music producer.
- Designed and implemented user interface using reusable React components to deliver a product that exceeded client expectations and increased business inquiries by over 300% from previous website.

ETL Developer, Royal Ambulance, San Leandro, CA *April 2021 - June 2021*
- Developed and configured program using JavaScript, Node.js, Axios**,** MS SQL Server to extract data from API, transform to IT dept's needs, and load to database, improving data quality and saving company time and money.
- Supplied over 5000 data points per day on over 400 employees for a company with over $9M annual revenue by automating five ETL processes to run daily, improving efficiency of analysis, reporting, EMT push out times.

EDUCATION

Software Engineering Immersive Bootcamp, General Assembly*, Remote August - November 2020*
- Completed 12 week Full-Stack Software Engineering Immersive with a 100% success rate of projects.
- Produced several full stack applications individually, and as a collaborator in small groups – gaining experience in the software development life cycle, technical communication, and creating an excellent user experience.

City College of San Francisco, Associates of Science in Business Administration, *May 2013*