Tyler LaRocca - Full Stack Engineer

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SUMMARY

A software engineer and IT Specialist specializing in React, TypeScript, JavaScript, Python, modern web technologies and all AI coding technologies (Augment, Cursor, etc.). I specialize in building dynamic and scalable applications using React and TypeScript. My technical expertise extends to related tools and frameworks such as NextJS, Vite, and state management libraries, as well as backend technologies including Python, Flask, NodeJS, Next.js, Express, and PostgreSQL. I also have experience building LLM and RAG models through Java and Python with a myriad of tools utilized such as OpenWebUI and more. I have extensive experience with HTML, CSS, and styling frameworks like Bootstrap and TailwindCSS, enabling me to design and implement visually appealing and user-friendly interfaces. I thrive in collaborative environments and often lead discussions around product features and enhancing product usability and user experiences.

Including an academic background in Higher Education and Education, concentrating on Learning and Behavioral Studies, I bring exceptional collaboration, leadership, self-motivation, and a commitment to continuous learning. These qualities enhance my ability to deliver innovative React-based solutions, thrive in team settings, and quickly adapt to evolving technological trends.

TECHNICAL SKILLS

Frontend: React, TypeScript, Next.js, TailwindCSS, Tanstack Table, ReCharts, HTML, SASS/CSS, JavaScript, jQuery, zustand, react-query, react-router, storybook, webpack
Backend: Python, Java, Flask, Node.js, Express, RESTful APIs, PostgreSQL/psql,
Tools: Vite, Vitest/Jest, Mocha, Chai, CRA, Node, Knex, Git, GitHub, Heroku, Node Package Manager, DBeaver, Visual Studio Code, Jira, Trac, Docker.

PROFESSIONAL EXPERIENCE

Get Outlier/Arken Optics   Remote, CA
Tech Lead/Lead Developer   03/2025 - Current
● Creating new technologies to further optimize Production, Customer Interaction and more in Python (Django), TypeScript (React) and WordPress.
● Website maintenance and optimization: ensuring the e-commerce platforms are running smoothly, fast, and user-friendly.
● Technical Support for Front-End Issues: troubleshooting site performance, checkout errors, and user experience issues.
● Content & Product Management: Assisting the Marketing department in updating product listings, banners, and promotional content on the websites.
● Integration management: Overseeing third-party tools, marketing integrations.
● Mobile & Cross-Platform Optimization: ensuring the website performs well on mobile and different devices.
● Collaboration with Marketing, Customer Service & Operations
● Incident & downtime Management: quickly addressing website downtime or performance issues.
● SEO improvement - Improved SEO scores on most websites from low 20 percentiles to 70-80 percentiles

ComplyAI   Remote, CA
Software Engineer - Frontend   09/2024 - 03/2025
● Building pixel perfect web pages on our production site according to Figma, leveraging TypeScript, JavaScript, React, Python, Flask and TailwindCSS.
● Working closely with designers and the lead engineer to develop intuitive, user-friendly interfaces.
● Optimizing by reducing unnecessary rerenders and building accessible mobile-friendly web applications.
● Implementing modern, stateful front-end development practices (zustand, react-query) and refactoring components ensuring clean, maintainable code.
● Collaborating closely with cross-functional teams to ideate and deliver high-quality solutions that address application and usability issues.
● Conducting research and presenting solutions to improve the usability and quality of web applications.
● Identifying components in Figma, building tickets using Trac, and assigning frontend tickets to interns.
● Conducting rigorous code reviews preventing application bugs using a staging environment.

● Identifying unnecessary component re-renders with the React profiler and logging, and optimizing using useMemo.

Madden Academy   Remote, CA
Full Stack Engineer Intern (AI)   06/2024 - Current
● Collaborate in a dynamic team to develop an AI NLM coachbot using PHP/Laravel and JavaScript.

● Led discussions around designing, implementing, and testing chatbot features to ensure a positive user experience.

● Preventing and reducing bugs in the Madden Academy application with rigorous debugging.

● Interfacing with stakeholders, guiding product discussions, and implementing features doubling Madden Academy's user count.

Web Developer   Remote, CA
Digital Cartel Media   07/2021 - 07/2022
● Designed and implemented innovative web development strategies, optimizing user experience and enhancing website performance.
● Developed and executed data-driven web applications, increasing user engagement and satisfaction.
● Implemented front-end and back-end solutions, actively improving website functionality and reliability.
● Conducted in-depth code reviews and testing to ensure high-quality, bug-free releases, enabling data-driven decision-making.

SOFTWARE ENGINEERING PROJECTS
Restaurant Reservation Application | Link
● Developed a full-stack reservation and table management system, utilizing React Router and Express to build a RESTful API for seamless HTTP requests to a PostgreSQL database.
● Implemented CRUD functions and utilized Knex queries to efficiently handle data interactions with the database.
● Leveraged Git for version control, ensuring secure management of changes and preventing sensitive information from being pushed to repositories.
● Leveraged React for front-end development, Node.js and Express for server-side logic, Knex for query building, and PostgreSQL for database management, ensuring a robust and scalable web application infrastructure.

Digital Cartel Media Site | Link
● Designed and developed a responsive, user-friendly website for Digital Cartel Media using modern JavaScript technologies (React, Vue.js).
● Implemented dynamic UI components to enhance user interaction and experience.
● Collaborated with design and backend teams to ensure seamless integration and functionality.
● Utilized SEO best practices to improve search engine visibility.
● Conducted thorough testing and debugging to ensure cross-browser compatibility and performance.
● Integrated third-party APIs for analytics, social media, and contact forms to enhance site capabilities.

Madden Academy AI | Link
● Created an application that provides users with real-time coaching and training tips for Madden NFL games.
● Developed a Natural Language Model (NLM) AI chatbot to assist users by offering "coaching on the fly" improving their gameplay through contextual advice and strategies.
● Implemented features that allow users to interact with the AI, ask questions, and receive tailored responses based on in-game situations.
● Defined routes and user interfaces, ensuring a seamless user experience across multiple components.
● Leveraged advanced web technologies such as PHP/Laravel, JavaScript, and AI models for robust application development; meticulously tracked progress and versions using Git to ensure code integrity and version control.

EDUCATION

University of California, Riverside - Master's Degree, M.Ed
GPA: 3.5   Riverside, CA

Graduated June 2022

University of California, Riverside B.A., Education with a Concentration in Learning and Behavioral Studies

GPA: 3.5   Riverside, CA

Graduated June 2021\

Certificate, Software Engineering, Thinkful, Online   Graduated 02/2024

● Acquired comprehensive knowledge of industry best practices and software development standards, focusing on JavaScript, HTML5, CSS3, React Native, Node.js, PostgreSQL, RESTful APIs, algorithms, and data structures.

● Demonstrated growth by successfully developing and launching mobile-first applications, actively engaging with senior web developers in a mentor-student relationship to expand language proficiency and framework expertise.