Tyler LaRocca - Full Stack Engineer

Fate, TX | (949) 537-6360 | larocca.c.tyler@gmail.com | [LinkedIn](#) | [Portfolio](#) | [Github](#)

SUMMARY

A software engineer and IT Specialist specializing in React, TypeScript, JavaScript, Python, modern web technologies and all AI coding technologies (Augment, Cursor, Github CoPilot, 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: Augment, Cursor, GitHub CoPilot, 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
GetOutlier/Backdraft Suppressors Technologies | Link
● Designed and developed a custom Help/FAQ chatbot using **vanilla JavaScript and CSS**, providing dynamic, client-side customer support functionality without reliance on third-party widgets.
● Architected and deployed front-end services to **Vercel**, implementing production-ready builds and environment-based configurations for scalable delivery.
● Engineered a **cross-platform coupon and rebate system**, enabling conditional purchase-based rewards on GetOutlier.com to be redeemed on a **separate e-commerce platform (BigCommerce)** that you also built and maintained.
● Implemented **custom business logic** to validate eligible products, generate unique coupon codes, and enforce redemption rules across multiple storefronts and domains.
● Improved site **SEO performance from low-20th percentiles to 70–80th percentiles** by optimizing metadata, structured content, internal linking, and render performance.
● Optimized **image delivery and front-end rendering**, reducing load times through compression, lazy loading, and improved asset handling.
● Leveraged **React** for select front-end components and UI optimizations while integrating with platform-specific constraints.
● Utilized **Git for version control**, maintaining clean commit history, environment separation, and secure handling of sensitive configuration data.

ComplyAI | Link
● Designed and implemented production-grade, **pixel-accurate user interfaces** from design specifications, translating complex Figma layouts into maintainable React and TypeScript components.
● Engineered **stateful front-end architectures** using modern data-fetching and state management patterns, improving application reliability and responsiveness under real-world usage.
● Optimized front-end performance by **identifying and eliminating unnecessary re-renders**, leveraging profiling tools and memoization strategies to improve runtime efficiency.
● Built **accessible, mobile-responsive web applications**, ensuring consistent behavior and usability across devices and screen sizes.
● Refactored legacy components to improve **readability, reusability, and long-term maintainability**, reducing technical debt and simplifying future feature development.
● Collaborated cross-functionally with design, product, and backend stakeholders to **research, propose, and deliver UX improvements** grounded in user needs and application constraints.
● Established and reinforced **code quality standards** through structured code reviews, staging validation, and systematic testing prior to production releases.
● Contributed to team scalability by **breaking down designs into actionable engineering tasks**, mentoring junior contributors,

and supporting efficient delivery workflows.

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.