Bryan Yi

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SKILLS

- **Languages:** JavaScript / Typescript, Java/Spring Boot, Node.js,, React.js/Next.js, Rust
- **Skills:** Git, PostgreSQL, Docker, REST / GraphQL APIs, Vim (neovim), Postman, Figma, Digital Ocean, Figma, Notion, Cursor

WORK EXPERIENCE

Ridge   **Santa Monica, CA**
Software Engineer   *July 2021 - Present*

- Designed and optimized high-performance **Node.js APIs** handling 500+ daily requests, implementing caching and reducing redundant API calls by 50%, which decreased load times, improved frontend responsiveness, and enhanced user experience by speeding up data retrieval by 40%.
- **Optimized the data fetching and server-side rendering architecture** for high-performance product pages using **Next.js/TypeScript**, decreasing critical page load times by 70% (1000ms to 300ms). This robust foundation enabled rapid content iteration, contributed to a 35% increase in user engagement, and drove a 5% improvement in conversion rates by ensuring optimal web performance.
- **Engineered a high-performance CLI** synchronization tool using **Node.js and TypeScript** that managed code synchronization across 7 repositories, implementing advanced features like customizable file exclusions and intelligent merge strategies that reduced deployment time by 80%, eliminated 95% of conflicts, and saved the engineering team 3.5 hours weekly.
- **Architected a robust testing framework utilizing Cypress** to automate end-to-end tests within the **CI/CD** pipeline integrated with GitHub Actions, leading to a reduction of manual testing efforts by 70% and ensuring consistent code reliability which contributed to a faster release cycle of application updates by over two weeks.
- **Collaborated closely with the design teams** to establish a streamlined design to development process, optimizing communication, reducing iteration cycles, and ensuring pixel-perfect implementation of design assets while maintaining code quality and maintainability.
- **Architected and delivered multiple revenue-driving product page modules**, orchestrating collaboration between product, engineering, and sales teams through design and frontend implementation that generated $10M+ in combined annual sales impact.
- Partnered closely with the design team to elevate the user experience, optimizing interface elements and mobile responsiveness through strategic SCSS adjustments and HTML restructuring, resulting in a 25% increase in mobile conversions and a 15% boost in overall customer satisfaction.
- **Drove a culture of code quality and maintainability** by enforcing strict version control practices, conducting frequent and thorough code reviews, and implementing best practices for branching, merging, and conflict resolution, ensuring the codebase remained scalable and adaptable to evolving business requirements.

PROJECTS

Siramiks | Spring Boot microservice backend service for e-commerce
- Designed and implemented a scalable, resilient e-commerce platform using a microservices architecture, leveraging technologies like **Spring Cloud, Eureka, OpenFeign, and Zipkin** to enable service discovery, inter-service communication, and distributed tracing.
- Developed a robust **API Gateway** using **Spring Cloud Gateway**, handling cross-cutting concerns such as authentication, rate limiting, and load balancing, ensuring a secure and efficient entry point for client applications.
- Utilized **Spring Security** and JWT for user authentication and authorization, ensuring the integrity and confidentiality of user data across the microservices.
- Integrated with third-party services like Stripe for secure payment processing and **Redis** for caching and rate limiting, demonstrating the ability to seamlessly incorporate external components into a microservices ecosystem.
- Containerized the microservices using **Docker**, enabling easy deployment, scaling, and management of the application, showcasing proficiency in modern deployment practices and tools

Rust CLI YouTube Downloader | A CLI tool to download YouTube videos
- Developed a command-line application in Rust for downloading YouTube videos, supporting both full video (MP4) and audio-only (MP3) formats.
- Engineered a robust downloading solution by wrapping the yt-dlp external binary, managing its execution asynchronously using Tokio, and parsing its output for video metadata and download progress.
- Implemented a user-friendly command-line interface using the clap crate for argument parsing, including options for specifying video URLs and custom output directories with tilde (~) expansion.
- Published on **Crates.io**

Server-side pixel tracking for Shopify Merchants | Golang + Remix.js | In progress
- Server-side tracking ensures accurate conversion data even with ad blockers and privacy settings, helping Shopify merchants maintain reliable marketing analytics without requiring technical expertise to implement complex tracking solutions.

EDUCATION

University of California, Irvine | *Bachelor's of Arts, Public Health*