Benjamin Batres 🔗🐙📧

Full-Stack Software Engineer | Front-End Developer

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Profile Summary

- **Full-Stack Software Developer** with hands-on experience delivering scalable web applications, interactive interfaces, and real-time data-driven platforms such as **AI-powered skin analysis** systems and **media streaming** tools.

- **Front-End expert** with a well-rounded technical skill set, with proficiency in **front-end** frameworks (**React**, **Next.js**), **styling** systems (**TailwindCSS**, **Material UI**), state and **data management** (**React Query**, **React Hook Form**, **Prisma**), backend and API technologies (**Node.js/Express.js**, **Firebase**, **SQL**), and **testing** tools (**Jest**, **React Testing Library**).

- Deep expertise in building responsive UIs, optimizing API integrations, and crafting **reusable component libraries**, leveraging modern practices such as **modular architecture**, **server components**, and **performance**-first development.

- Engaged **collaborator** working closely with **cross-functional teams** in **Agile** settings, contributing to sprint **planning**, **code reviews**, and **pair programming** with experience **leading workshops** on UI Development.

Technical Skills

Languages: TypeScript, JavaScript, HTML, CSS, SQL
Frameworks & Libraries: React, Next.js, Node/Express.js, Firebase, React Query, React Hook Form
Component Libraries: ShadCN/UI, TailwindCSS, Material UI
Testing: Jest, React Testing Library
APIs: OpenAI LLM API, OpenAI Vision API, Stripe API
Animation Libraries: GSAP, Lottie
Database: Firebase, MongoDB
Tools & Platforms: Git, GitHub, Vercel, Linear, Jira, Figma, Prisma, Facebook + Google + TikTok Server-Side Pixel tracking

Education

FES Institute   San Francisco, CA
Computer Science | GPA: 3.96/4.00   Sep. 2024 - May 2025

Work Experience

SaveSpend   Remote
Technical Co-Founder   Aug. 2025 - Present

- Founded an **Ed-Tech start-up** and assumed **executive** and **technical leadership**, developing and executing strategy, establishing goals and deliverables, and taking ownership and responsibility of delivery.

- Architected and scaled the core **Ed-Tech** platform using **Next.js**, **TailwindCSS**, **Prisma ORM**, **PostgreSQL**, and **Zustand**, leading end-to-end product development from marketing funnel with micro-interactions to core product features.

- Implemented functionality to improve marketing funnel efficiency by applying data tracking and **A/B testing** via **Mixpanel**, **Amplitude**, **Optimizely**, and **LaunchDarkly**, aligned with **Bayesian Optimization** and **Sequential Testing**, reducing user journey drop-off rate.

- Integrated **Stripe** payment processing into the platform by configuring **APIs**, securing payment data, and optimizing the checkout flow to reduce friction and enhance user satisfaction.

- Drove online customer acquisition by running targeted campaigns on **Google Ads** and **Facebook Ads**, applying keyword optimization, retargeting, and lookalike audiences to increase sign-ups and scale recurring revenue to **$2,000 MRR** with a daily ad spend of **$200**.

Skinstric AI   Remote

Frontend Engineer

Nov. 2024 - Apr. 2025

- Delivered a real-time skin analysis platform using **OpenAI Vision API** and **Next.js 14**, incorporating animation-enhanced **UI** to improve performance, detection accuracy, and user retention, achieving **98%** accuracy across skin conditions.

- Collaborated within a cross-functional team including the CEO (vision), CTO (technical decisions), and UI/UX Designer (**Figma**), employing **Agile** practices such as daily stand-ups and weekly sprints to deliver solutions under tight deadlines.

- Crafted aesthetically pleasing **UI** components using **React**, incorporating **SOLID**, **DRY** principles, virtual **DOM** diffing, memoization, and lazy loading to design dynamic skincare recommendation cards, increasing user engagement by **60%**.

- Developed a scalable modular component library with **TailwindCSS**, employing **Progressive Enhancement** and **Atomic Design** principles to optimize skincare product listing interfaces, thereby expediting **A/B testing** and iterative design.

- Integrated **Next.js Server** Components with **Lottie** animations to achieve real-time skin condition analysis in under **2** seconds using **Vercel Edge Functions**, **AWS Lambda@Edge**, the **Next.js Image component**, and **Cloudinary**, ultimately reducing page load speed to **60**ms.

- Engineered a high-performance image processing pipeline by integrating the **OpenAI Vision API** with a **4D** Mini model to improve skin tone and texture discrepancy detection, using **CUDA**, **Vulkan Compute**, **Kubeflow Pipelines**, and **Apache Airflow**, reducing latency by **1850 ms**.

- Implemented end-to-end and unit testing workflows using **Jest**, **React Testing Library**, and **Cypress** to secure component reliability, maintain **UI** consistency, and reduce post-deployment bugs by **130%**.

- Designed scalable state solutions using **Redux Toolkit**, **Zustand**, and **React Context API** to manage asynchronous data flows, consequently reducing rerenders and cutting user experience latency by **300ms**.

- Optimized **UI** components for full accessibility compliance by implementing **WCAG 2.1**, **ARIA** roles and using **Axe-core**, **Lighthouse** to achieve an accessibility score of **98%** across all primary interaction flows.

- Delivered compelling **presentations** on designs and evolving software development trends and technology integration strategies to senior management and stakeholders, leveraging visualization tools and storytelling techniques.

Frontend Simplified

Remote

Frontend Developer & Support staff

Feb. 2024 - Oct. 2024

- Created educational resources on **React** component architecture and **TypeScript** that enabled **70%** of mentees to build type-safe applications using **Zod** and runtypes, organize code efficiently with **Vite** and **Parcel**, and use **Redux** and **Recoil**.

- Built and deployed a scalable component library using **ShadCN/UI**, integrating **Tailwind CSS**, **Emotion**, **pnpm**, and **Turbopack** to reduce development time by **40%**.

- Led collaborative study sessions focused on deployment workflows and **CI/CD** best practices, allowing **85%** of attendees to configure automated pipelines using **GitHub Actions** and **CircleCI** with **AWS** and **Google Cloud Platform**, applying **GitOps** and **Canary Releases** for reduced second execution time.

- Delivered and facilitated workshops on modern frontend optimization, incorporating **Lighthouse**, **WebPageTest**, **Code Splitting**, and **Tree Shaking** to enable students to decrease portfolio project load times by an average of **50%**.

- Planned and led weekly pair programming sessions focused on accessibility and **SEO**, emphasizing **Semantic HTML**, **Structured Data**, **ARIA Roles**, and Keyboard Navigation, resulting in **90%** of students delivering **WCAG**-compliant projects.

- Selected as a peer mentor for ranking in the top **5%** of the team, delivered **code reviews** and debugging guidance for **20+** students developing **React** and **Next.js** projects while leveraging **Code Review Checklists** and **Test-Driven Development**.

Frontend Simplified (remote, CA)

City, State

Frontend Developer (Intern) 🔗 ⌂

Feb. 2024 - Oct. 2024

- Boosted user engagement by **40%** through integration of fluid animations and responsive carousels using **Framer Motion**, **React Spring**, **Tailwind CSS**, and **Styled Component**s within a **React** Single Page Application.

- Improved **API** response time by **30%** by integrating skeleton loading states, pagination, and dynamic routing, utilizing **FastAPI**, **Node.js** with **Koa**, **Redis**, and **Varnish Cache**.

- Engineered and deployed **UI** animations with **Framer Motion**, **Lottie**, **Emotion**, and **Styled Component**s, maintaining a page load time of **240ms**.

- Managed source code using **Git** version control and its interface to coordinate tasks, resolve merge conflicts.