Daniel Shaby

Full Stack Software Engineer

+1-818-370-8344 | dshaby@berkeley.edu | [LinkedIn](#) | [GitHub](#) | https://danielshaby.com

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 4+ years of experience building scalable web apps using **Next.js, React, and TypeScript** on the frontend, and **Node.js, AWS Lambda (Serverless v4)**, and **Python** on the backend. Experienced in designing performant UI/UX, developing RESTful APIs, and modernizing legacy systems into cloud-native microservices. Skilled in **CI/CD automation (CodePipeline, CodeBuild)** and **infrastructure as code (AWS CDK, Serverless)**. UC Berkeley alum passionate about type-safe code, modern frontend design, and reliable cloud architecture.

KEY SKILLS

Frontend: React, Next.js (App Router), TypeScript, JavaScript, Tailwind CSS, Material UI
Backend: Node.js, Typescript, AWS Lambda, Serverless Framework v4, Express, Nest.js, Python, Django, Flask
DevOps/Cloud: AWS (Lambda, API Gateway, S3, Cloudfront, Cloudformation, IAM, Cognito, WAF, CodePipeline, CodeBuild, SSM), AWS CDK, Docker, Kubernetes, GitHub Actions, Jenkins, Vercel
Databases: PostgreSQL, MongoDB, DynamoDB
APIs: REST, GraphQL
Testing: Jest, React Testing Library, Python Unittest, Zod validation
Tools: Redux Toolkit Query (RTK Query), Agile (Jira, Asana), Infrastructure as Code (IaC), Type-safe contracts.

PROFESSIONAL EXPERIENCE

Full Stack Engineer – *TS Industrial LLC*   **March 2025—Present**

- Spearheading **modernization** of TSI's legacy e-commerce platform (9 M + industrial parts) by migrating to a **TypeScript-based serverless microservices architecture** (AWS Lambda + API Gateway + DynamoDB).
- Developed and standardized backend service patterns using **Serverless v4**, **Zod validation**, and **shared contracts** across `products`, `users`, and `orders` microservices for consistent API design and maintainability.
- Built and deployed **Next.js 15 frontend** (App Router, RTK Query, Tailwind CSS), enhancing SEO, localization (English/Spanish), and multi-currency user experiences.
- **Optimized UI and search/order flows**, improving load time and client-side caching while enhancing code maintainability of React components.
- Implemented **multi-environment CI/CD pipelines** with AWS CodePipeline, CodeBuild, and GitHub integrations for dev, testing, UAT, and production environments.
- Defined **infrastructure-as-code** with **AWS CDK** and custom Serverless configurations (WAF, CloudFront, OAC, S3 asset buckets, CloudWatch log retention).
- Introduced **type-safe shared** `@tsindustrial/contracts` for frontend + backend, improving **observability and standardizing error responses** (problem+json).
- Leading migration of the platform from tsiparts.net to modern-app.net improving speed, maintainability and scalability.

Founding Full Stack Engineer – *Homekey - MVP Launch*   **Jan 2025—Feb 2025**

- Launched a new product from scratch (zero code) to production, enabling 30+ users to buy/sell homes via the platform.
- Mentored 3 engineers on React, TypeScript, and Python Flask best practices, ensuring scalable and production-grade code.
- Developed a prioritized Minimum Valuable Product (MVP) feature plan for release within one month, followed by building core features, including authentication and AI-powered PDF generation to support the launch.
- Integrated automatic emails and calendar scheduling tools to onboard and convert 20 waitlisted users into active testers.
- Deployed multi-environment infrastructure (dev, stage, prod) with DNS and AWS S3 for secure, shareable legal document storage and authentication via Clerk.
- Led adoption of Redux Toolkit Query by designing a type-safe, scalable structure that improved readability, reduced boilerplate, and enabled a 6-person team to ship features more efficiently.
- Engaged users to gather feature feedback and iterated rapidly, and upgraded core features like AI-powered search.
- Designed and deployed landing and listing pages that enabled over 100 visitors to explore property options and increase early engagement of the platform.

Front-End Engineer – *Bynder*   Jan 2023—Feb 2024

- Developed micro-frontends enabling CSV-based asset migration from Webdam to Bynder, supporting thousands of enterprise users with real-time error resolution.
- Modernized image crop tool by replacing legacy jQuery/ColdFusion with a React-based solution, enhancing maintainability and UX.
- Advocated for and launched the first Next.js-based project in the organization by developing an internal case-of-support.
- Tested new features end-to-end with consistent unit/integration tests using React Testing Library and Jest.
- Set up scalable CI/CD workflows using Docker and Kubernetes leading for better developer workflows and ease of feature expansion.
- Implemented skeleton loaders and caching strategies, improving page load times by 30%.
- Built internal analytics dashboard to track asset processing history, change logs, and performance metrics.

Full Stack Software Engineer – *Crown Clothing*   Mar 2022—Dec 2022

- Redesigned checkout flow and React UI, increasing online sales by 15%.
- Migrated state management to Redux for maintainability.
- Integrated Apollo Client with GraphQL APIs to build responsive product and shop pages.
- Optimized frontend assets and lazy loading to boost Lighthouse performance score from 77% to 93%.
- Enhanced data loading via pagination and caching for large-scale product queries.
- Built secure OAuth 2.0 authentication to improve UX and user security.
- Refactored high-traffic API endpoints to improve reliability and performance.

Cofounder & Product Team Lead – *BOTE*   Apr 2020–Feb 2022

- Led cross-functional team of 8+ developers, designers, and content creators from USC, UCLA, and Chapman to deliver product MVP.
- Built MVP using React, Node.js, Bootstrap, and Stripe for payments.
- Designed and deployed marketing pages and landing experiences, increasing site traffic to 10K monthly views and 600 monthly users.

PROJECTS

Daniel's Blog (Django, PostgreSQL, AWS S3)   June 2024

Developed a full-stack blogging platform with user authentication, image uploads via AWS S3, and a custom admin interface for blog content. Deployed via AWS Elastic Beanstalk for scalability.

Real-Estate (NextJS, Typescript, OpenAI, Redfin API)   May 2024

Built a real estate platform using LLM-enhanced natural language search and Google APIs for autocomplete. Implemented global state with RTK Query and styled with Material UI.

EDUCATION

University of California, Berkeley
Bachelor of Arts in Economics & Public Health (Double major)   Graduated 2020 | GPA: 3.7

CERTIFICATIONS

The Complete Web Development Bootcamp – The App Brewery   **2021**
LinkedIn Learning/Udemy: Sr. React Developer, Docker & Kubernetes, System Design   **2020–2024**