

Roy Dey

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Experience

Full Stack Software Engineer

06/2024 – Present

First Drafts

San Jose, CA

- Engineered a real-time document streaming API and rich text editing interface with FastAPI and NextJS, reducing litigation document drafting time by 80% and enabling attorneys to upload case files, receive AI-generated drafts via server-sent events, and iteratively refine documents through AI-integrated chat.
- Drove a 13% month-over-month revenue increase by architecting a custom full-stack A/B testing framework that systematically validated pricing strategies while coordinating user cohort assignment and pricing logic across the website, web-app, backend, and billing integrations.
- Enabled rapid scaling from \$0 to \$100K ARR in 6 months by integrating Stripe, Auth0, and SendGrid into a cohesive microservices-style architecture, reducing time-to-market for critical business features.
- Accelerated feature feedback loop by implementing beta testing infrastructure, enabling controlled rollout to select user cohorts for stability validation and behavior analysis prior to general availability.
- Reduced DevOps and deployment overhead by automating testing with Pytest and Playwright, and release workflows with GitHub Actions, allowing the team to confidently ship updates with zero downtime.

Full Stack Software Engineer

03/2021 – 09/2022

Silq

San Jose, CA

- Owned the end-to-end development of a purchase order system managing >\$5M in annual inventory, from architecting scalable PostgreSQL schemas and GraphQL (Graphene) mutations to implementing interactive NextJS dashboards that allow clients to track complex order details and granular line-item specifications.
- Built critical services for an event-driven freight quoting engine using Python, Django, PostgreSQL, and Kafka, accelerating quote turnaround time from manual processing by implementing asynchronous Pub/Sub communication and ensuring data consistency across distributed calculation microservices.
- Enhanced the workflow of international factory QA operations by developing a React Native mobile application, replacing error-prone legacy paper forms with standardized digital workflows that feature seamless, secure S3 media synchronization for real-time inspection data.
- Accelerated financial reporting and internal operations by developing custom Metabase analytics dashboards and Retool workflows, providing executive leadership with real-time visualizations of business-critical KPIs and replacing manual data aggregation tasks.

Software Engineer Intern

06/2019 – 07/2020

University of California Davis

Davis, CA

- Modernized the e-commerce frontend using Angular and Bootstrap, boosting user engagement by 12% by implementing fully responsive mobile design patterns and optimizing cross-device UI performance.
- Engineered a custom e-assessment platform using Angular and MySQL, saving university staff 2+ hours/week and eliminating vendor costs by building a scalable, URL-based quiz system.

Technical Skills

Languages : Python, TypeScript, JavaScript, HTML, CSS, GraphQL, SQL

Frameworks : FastAPI, Django, NextJS, React, React Native, Graphene, PostgreSQL, Redis

Technologies: Git, Docker, AWS EC2, AWS ELB, AWS S3

Education

University of California Davis

11/2016 – 06/2020

B.S. Computer Science; GPA: 3.4

Davis, CA