

# Alex Burke

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## WORK EXPERIENCE

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**IFIXIT** — San Luis Obispo CA

Apr 2022 - Nov 2024

### Full-Stack Software Engineer

*iFixit is the leading provider of repair information, empowering over 8 million monthly users to fix their devices with over 100,000 free repair guides for more than 50,000 household items.*

- Strong reference and letter of recommendation from the CEO of this agile, competent company
- Promoted for recognized development talent with increasing responsibility and ownership of projects on the company's 20-person core software team
- Identified distributed system-level performance bottlenecks and optimized big data queries and server logic to resolve critical performance bottlenecks, ensuring seamless scalability for a global user base
- Developed a CLI data-ingestion tool for secure data uploads, enabling 10,000+ device page creations and streamlining bulk content creation workflows by cutting manual effort
- Built an AI-powered autocomplete interface using Algolia vector search, enhancing the page creation experience and reducing the presentation of redundant site content

## PROJECTS

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**SUBNOMAD.COM**

Jan 2025 - Current

- Engineered an AI-driven Next.js dashboard with self-hosted SQL infrastructure to track and visualize global subscription pricing
- Automated refreshes via few-shot LLM scraping, currency-conversion APIs, and cloud cron jobs to keep geo-specific data always current

**VLAB EDUCATION DASHBOARD**

Jul 2024 - Sep 2024

- Designed, developed, and launched a full-stack web app with user authentication. Implemented a custom storefront using Stripe webhooks for payment processing
- Optimized a Playfab data pipeline using an Express proxy server for 3x real-time speed improvement

**TEAM FEMR**

Oct 2021 - May 2022

- Developed a secure API and database for a distributed emergency medical records system, enabling seamless patient data access in remote environments with health privacy and compliance considerations

**MY BEATS**

Sep 2020 - Feb 2021

- Collaboratively built a component-based React web app that analyzes Spotify listening data to predict favorite genres and recommend songs, secured via Firebase REST authentication

## EDUCATION

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**CAL POLY - SAN LUIS OBISPO**

2018 - 2022

*Bachelor of Science, Software Engineering*

- President's Lists & Dean's Honor Lists, 2020-2022
- Executive Board Leader for the Cornhole and Wakeboard Clubs

**BELLARMINE COLLEGE PREPARATORY** — San Jose, CA

## SKILLS

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**Software Engineering:** Agile, A/B Testing, Debugging Complex Systems, QA Testing, Code Reviews, CI/CD

**Languages:** PHP, SQL, Typescript, Javascript, React, HTML/CSS, Python, Java

**Application Development:** Next.js, Express, Tailwind CSS, Node.js, Caching, RESTful APIs, CMS