

# Arsalan Bardsiri

949-612-5582 | [arsalanbardsiri@gmail.com](mailto:arsalanbardsiri@gmail.com) | [arsalanbardsiri.dev](https://arsalanbardsiri.dev) | [linkedin.com/in/arsalan-bardsiri](https://linkedin.com/in/arsalan-bardsiri) | [github.com/arsalanbardsiri](https://github.com/arsalanbardsiri)

## PROFESSIONAL SUMMARY

Hybrid Full-Stack Software Engineer and QA Automation Expert with 3+ years of experience bridging the gap between software development and quality assurance. Specializes in building scalable, distributed web applications using **Next.js 16**, **TypeScript**, and **Node.js**, while ensuring production reliability through robust **CI/CD** pipelines and automation frameworks (**Cypress**, **Playwright**). Proven track record of re-architecting legacy systems into modern, distributed architectures in agile environments.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Python, Ruby, SQL, HTML5, CSS3

**Frontend:** Next.js 16 (App Router), React 19, Tailwind CSS, Shadcn UI, Framer Motion, Redux

**Backend:** Node.js, Express, NestJS, Django, Sinatra, GraphQL, REST APIs, WebSockets

**Databases & Cloud:** PostgreSQL (Supabase/Neon), Redis (Pub/Sub & Queues), MongoDB, Docker, AWS

**QA & DevOps:** Cypress (E2E), Playwright, JMeter (Performance), GitHub Actions (CI/CD), Jest, PyTest

**Architecture:** Microservices, Distributed Systems, Event-Driven Architecture, Serverless

## EXPERIENCE

### Ecotruk Facility Management Software

Irvine, CA

*QA Lead & Automation Engineer*

2023 – 2024

- Engineered a robust test automation framework using **Cypress** and **JavaScript**, reducing manual regression testing time by **40%**.
- Designed and implemented **CI/CD pipelines** via **GitHub Actions**, enabling automated testing on every pull request and accelerating deployment cycles.
- Conducted performance load testing using **JMeter** to identify database query bottlenecks, working directly with backend engineers to optimize SQL performance.
- Bridged the gap between product and engineering by translating complex requirements into precise test plans and technical documentation.

### Freelance / Independent

Remote

*Full-Stack Developer*

2022 – Present

- Architected and deployed high-performance web applications for diverse clients using the **MERN stack** and **Next.js**.
- Integrated secure payment gateways (**Stripe**) and headless CMS solutions to deliver dynamic, content-driven platforms.
- Optimized frontend performance, achieving perfect Lighthouse scores for SEO and Accessibility.

## TECHNICAL PROJECTS

### Blog Lounge V2 | *Next.js 16, Redis, Express, PostgreSQL, Playwright*

2025

- Re-engineered legacy blogging platform into a distributed content system implementing the **Cache-Aside pattern** with **Redis**, reducing API latency by 60ms.
- Implemented custom **Rate Limiting** middleware using Redis sliding windows to prevent DDoS attacks and ensure API stability.
- Designed a "Distributed Desk" UI with drag-and-drop persistence using **Framer Motion** and local storage.

### ProjectIt V2 | *Next.js 16, Socket.io, Redis Adapter, Docker*

2025

- Re-architected legacy monolith into a microservices-ready platform, utilizing **Socket.io** with a **Redis Adapter** to support horizontal scaling of WebSocket clusters.
- Developed a custom background job queue using Redis to handle asynchronous tasks like email notifications decoupled from the main API thread.
- Ensured type safety across the full stack with **TypeScript** and **Zod** schema validation.

### Catlender V2 | *Next.js 16, Google Gemini AI, Supabase*

2025

- Rebuilt legacy task management tool as an AI-augmented application integrating **Google Gemini API** to act as an intelligent agent for schedule optimization and daily briefings.
- Leveraged **Supabase** for real-time data persistence and row-level security (RLS) policies.
- Designed a highly responsive, glassmorphic UI using **Tailwind CSS** and **Shadcn components**.

## EDUCATION

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**University of California, Irvine**

*Full-Stack Web Development Certificate*

Irvine, CA

2023

**California State University, Northridge**

*Computer Engineering (Senior Standing)*

Northridge, CA

2016 – 2020