Arsalan Bardsiri

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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 reducing regression cycles and optimizing system performance 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

Ecotrak 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 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

University of California, Irvine Irvine, CA

Full-Stack Web Development Certificate 2023

California State University, Northridge Northridge, CA

Coursework in Computer Engineering 2016 – 2020