

# Arsalan Bardsiri

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## Education

California State University, Northridge	Northridge, CA
Computer Engineering (Senior Standing)	2016 – 2020
• Completed 3+ years of rigorous coursework including Data Structures, Algorithms, and Operating Systems.	
• Withdrew during senior year (March 2020) with full standing in core engineering competencies.	
University of California, Irvine	Irvine, CA
Full-Stack Web Development Certificate	2023

## Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, Ruby, SQL, HTML5, CSS3  
Frontend: Next.js 16 (App Router), React 19, Tailwind CSS, Shaden UI, Framer Motion, Redux  
Backend: Node.js, Express, NestJS, Django, Sinatra, GraphQL, REST APIs, WebSockets  
Databases & Infrastructure: PostgreSQL (Supabase/Neon), Redis (Pub/Sub), Docker, AWS, GitHub Actions  
QA & Testing: Cypress (E2E), Playwright, JMeter (Performance), Jest, PyTest

## Experience

Ecotran Facility Management Software	Irvine, CA
QA Lead & Automation Engineer	2023 – 2024
• Engineered a robust test automation framework using Cypress and JavaScript, reducing regression testing cycles by 40%.	
• Implemented CI/CD pipelines via GitHub Actions to automate testing on pull requests, accelerating developer feedback loops.	
• Conducted high-volume performance load testing using JMeter to identify and resolve SQL query bottlenecks.	
• Bridged the gap between engineering and product teams by translating complex technical requirements into executable test plans.	
Freelance / Independent	Remote
Full-Stack Developer	2022 – Present
• Architecting and deploying scalable web applications for clients using the MERN stack and Next.js.	
• Integrating secure payment systems (Stripe) and Headless CMS architectures for dynamic content management.	
• Optimizing applications for SEO and performance, consistently achieving 95+ Lighthouse scores.	

## Technical Projects

ProjectIt V2   Next.js 16, Socket.io, Redis Adapter, Docker	2025
• Re-architected a legacy monolith into a distributed, microservices-ready platform.	
• Implemented a horizontally scalable WebSocket cluster using Socket.io with a Redis Adapter.	
• Developed a custom background job queue utilizing Redis to decouple email notifications from the main API thread.	
Blog Lounge V2   Next.js 16, Redis, Express, PostgreSQL, Playwright	2025
• Built a high-scale content platform implementing the Cache-Aside pattern with Redis to minimize DB load.	
• Designed a custom Rate Limiting middleware (Sliding Window algorithm) to protect API endpoints from DDoS.	
• Integrated Playwright for End-to-End testing of critical user flows including authentication and payments.	
Catlender V2   Next.js 16, Google Gemini AI, Supabase	2025
• Modernized a legacy calendar app into an AI-augmented productivity tool.	
• Integrated Google Gemini API to act as an intelligent agent for schedule optimization and daily briefings.	
• Leveraged Supabase for real-time data synchronization and Row-Level Security (RLS).	