

Nivyan Butt

Software Engineer

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PROFILE

Lead Software Engineer with 3+ years of experience architecting scalable web applications and leading cross-functional teams. Expert in **full-stack JavaScript and Python** development, with a proven track record of delivering high-performance, client-focused solutions that align technical strategy with business growth.

PROFESSIONAL EXPERIENCE

Independent Senior Full-Stack Freelancer

Jan 2020 – Jun 2025 | Remote

Successfully delivered **20+ end-to-end software solutions**, including Hospital Management Systems and complex E-commerce ecosystems across Upwork and Fiverr.

- Managed the **full SDLC** for a diverse global clientele, maintaining a **100% on-time delivery rate** and a consistent 5-star performance rating.
- Engineered high-conversion **React and Next.js** platforms, translating Figma designs into performant code that drove a **25% average increase** in client conversion.
- Architected scalable backend systems using **Python and Java**, implementing robust database schemas and secure API integrations for enterprise-grade applications.
- Consulted on **technical strategy** and UI/UX best practices, bridging the gap between business goals and technical execution for 20+ product launches.
- **Technologies:** React, Next.js, Python, Java, PostgreSQL, Figma, RESTful APIs

Senior Software Engineer

2022 – Jan 2026 | Lahore, Pakistan

Arithmiks [🔗](#)

Qareeb | Full-Stack Engineer [🔗](#)

Bilingual (Arabic/English) platform for automated transcription and AI-driven insight extraction.

- Built various full-stack features, including a responsive **RTL/LTR** layout system to support seamless bilingual UI/UX.
- Integrated **Nylas API** to build a high-performance internal calendar system, streamlining meeting scheduling and automated bot deployment.
- Engineered a robust E2E testing framework using **Playwright**, achieving comprehensive cross-browser coverage and reducing production regressions by **30%**.
- **Technologies:** React, Node, Playwright, MSW, i18next, Zod, Better Auth, Drizzle, Docker, Nylas, Listmonk

SBA Loans HQ | Lead Full-Stack Developer [🔗](#)

AI-powered loan management ecosystem orchestrating secure workflows for 200+ brokers and lenders.

- Architected a **multi-tenant system** with granular **RBAC**, ensuring SOC 2-compliant access and security for lenders and borrowers.
- Engineered an AI-driven fraud detection engine using **Gemini** to score high-risk applications and match borrowers with optimal loan products.
- Automated document extraction by integrating **AWS Textract**, reducing manual processing time by **70%**.
- Optimized complex state management using **Redux** to handle data-heavy loan application workflows and real-time UI updates.
- **Technologies:** Next.js, Tailwind CSS, Redux, Django, PostgreSQL, AWS Textract, Gemini AI, JWT, Docker

Swerv Automotive Marketplace | Lead Software Engineer [🔗](#)

High-scale lead generation platform connecting 50+ dealerships with data-driven purchase insights.

- Directed a team of 2 engineers to architect a high-scale marketplace, managing the **full SDLC** and end-to-end delivery for **50+ enterprise dealerships**.
- Engineered a high-performance frontend architecture using **Next.js**, optimizing data-fetching and rendering for **7M+ vehicle records**.
- Translated business requirements into technical roadmaps, delivering a conversion-optimized UX that generated **15+ dealer sales** in the first month.
- Architected real-time data visualizations using **Chart.js** and **WebSockets** to provide dealerships with live inventory and lead tracking.
- **Technologies:** Next.js, Tailwind CSS, Slate.js, Chart.js, Django, PostgreSQL, AWS S3, WebSockets

Easybar Design Tool | Frontend Engineer [🔗](#)

- Engineered a browser-based **CAD tool** using **KonvaJS**, increasing design efficiency by **60%** and reducing calculation errors by **85%**.
- Developed complex vector-based features and automated **PDF blueprint generation** for 500+ daily active users.
- **Technologies:** React.js, TypeScript, KonvaJS, Redux, PdfJS, DND Kit, Styled Components, Django

Metro-360 Data Platform | Full-Stack Developer

- Architected scalable data pipelines handling **2M+ daily records** from BigQuery and SFTP, ensuring data integrity across distributed sources.
- Optimized backend processing using **Python (Pandas/NumPy)**, reducing complex data transformation cycles from hours to minutes.
- **Technologies:** React, Python, Pandas, NumPy, Flask, PostgreSQL, BigQuery

Almani Healthcare | Full-Stack Developer [🔗](#)

- Launched a multi-sided healthcare platform featuring a custom **case referral system** and automated patient-provider matching.
- Engineered a mobile-first architecture that achieved **99% compatibility**, significantly expanding accessibility for 1,000+ patients.
- **Technologies:** Next.js, Tailwind CSS, Zod, Form Management, RESTful APIs

Hakro 3D Garments | Full Stack Engineer [🔗](#)

- Developed a high-fidelity **3D garment viewer** using **Three.js** and **WebGL**, enabling granular real-time customization of textures and meshes.
- Engineered a custom **shader-based logo placement system**, boosting user engagement through realistic material rendering.
- **Technologies:** Next.js, Three.js, WebGL, GLSL (Custom Shaders), 3D Graphics

PROJECTS

SchemaAI

Mar 2026 – Present

AI-Powered Data Analytics & Dashboard Engine

Engineered a full-stack, language-agnostic data platform enabling users to transform raw SQL databases into actionable visual insights through an AI-integrated workspace.

- **Architected a dynamic Dashboard Engine** with a fully customizable grid layout, supporting real-time data visualization through widgets, charts, and interactive tables.
- **Integrated Large Language Models (LLMs)** to provide a Natural Language-to-SQL interface, allowing non-technical users to perform complex data analysis using plain English.
- **Developed a comprehensive SQL Query Builder** and database explorer that supports schema introspection and automated AI-driven query suggestions.
- **Implemented a multi-tenant architecture** allowing secure database connections and persistent state management for personalized user dashboards.

EDUCATION

Bachelors of Science in Computer Science

2019 – 2023 | Lahore, Pakistan

National University of Computer and Emerging Sciences

FSC (Pre-Engineering)

2017 – 2019 | Okara, Pakistan

DPS College

SKILLS

Technologies

AI & ML: LLM Integration (Gemini, OpenAI), Prompt Engineering, Computer Vision (OpenCV), AWS Textract, RAG, Pandas, NumPy

Languages: JavaScript (ES6+), TypeScript, Python, Java, SQL

Frontend: React, Next.js, Redux, Tailwind CSS, Three.js/WebGL, KonvaJS

Backend: Node.js, Django, Flask, Express, RESTful APIs, WebSockets, GraphQL

Databases: PostgreSQL, MongoDB, BigQuery, Drizzle, Prisma

DevOps & Cloud: AWS (S3, EC2, Textract), Docker, NGINX, CI/CD, Playwright Auth & Security: OAuth, JWT, RBAC, SOC 2 compliance

Tools

GIT | GitHub | Notion | Postman | VS Code | Figma | Jira | Shortcut | Trello