

HASNAIN ARIF

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SUMMARY

Software Engineer with 3+ years of experience designing, building, and shipping production web applications and AI-powered SaaS platforms across healthcare, marketing, and enterprise domains. Strong in full-stack development with React, Next.js, Node.js, and Python FastAPI, with hands-on experience in multi-repo architectures, REST API design, data pipelines, cloud deployment, and securing backend services.

EXPERIENCE

Software Engineer

October 2025 – Present

CBSOL

Lahore, Pakistan

- Built the workstream module, widget builder, and BigQuery analytics with Highcharts across a 5-repo Next.js and Python FastAPI architecture.
- Developed a shared NPM component library with schema-driven rendering, enabling dynamic UI generation from AI agent outputs.
- Integrated Google ADK agents to power AI-driven creator search averaging 28 results per query, with analytics pipelines via Upfluence.
- Secured 12+ exposed API endpoints by migrating logic to Supabase edge functions, resolving critical bugs and improving platform stability.

Associate Software Engineer

January 2025 – October 2025

TechieTribe

Lahore, Pakistan

- Built backend services for an internal data pipeline platform, handling integrations and data flow using Node.js and NestJS.
- Developed a CLI tool automating daily ingestion of 500+ records from Snowflake to DB2 and FDS, eliminating manual data processing.
- Contributed to API development, database management, and CI/CD deployment pipelines using Git-based workflows.

Full Stack Developer

January 2024 – November 2024

360 Social Agent

Lahore, Pakistan

- Developed and shipped full-stack features for client-facing web applications, from UI to REST APIs and database design, using React, Next.js, and Node.js.
- Designed and integrated backend APIs and database schemas across MongoDB and PostgreSQL to support marketing and social media management workflows.
- Integrated third-party services and APIs, and handled authentication and data validation across the stack.
- Collaborated with designers and project managers to deliver features on schedule, participating in code reviews and release cycles.

Frontend Developer

June 2023 – December 2023

SAMS Developers

Lahore, Pakistan

- Built responsive user interfaces and a reusable component library using React.js, Next.js, Tailwind CSS, and ShadCN/UI.
- Improved website performance through code optimization and ensured cross-browser compatibility.

PROJECTS

PX-Engine | Next.js, FastAPI, Google ADK, BigQuery, Highcharts

October 2025 – Present

- Built a workstream module and dynamic widget builder with schema-driven UI rendering from AI agent outputs via a shared NPM library.
- Developed BigQuery analytics workflows with Highcharts visualizations for creator performance tracking using Google ADK agents.
- Engineered a multi-repo architecture spanning a Next.js client, Python FastAPI backend, admin panel, and shared component library.

Medipyxis Core | Next.js, Supabase, PostgreSQL, Jira, GitHub

October 2025 – December 2025

- Secured exposed APIs by migrating business logic to Supabase edge functions and implementing Row Level Security policies platform-wide.
- Resolved critical bugs and optimized performance across clinical workflow modules including intake, billing, and scheduling.
- Managed releases across multiple environments using Jira for task tracking and GitHub for version control.

EDUCATION

University of the Punjab

2025

Bachelor of Information Technology, GPA 3.6

Lahore, Pakistan

- Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Web Development, Operating Systems.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React.js, Next.js, Tailwind CSS, ShadCN/UI, Framer Motion, Highcharts

Backend: Node.js, Express.js, NestJS, Python FastAPI, REST APIs

Databases: PostgreSQL, MongoDB, Supabase, Firebase, Convex, Neon

AI / Data: Google ADK, BigQuery, Snowflake, DB2

Tools & Platforms: Git, GitHub, Jira, Vercel, GCP, NPM, CLI Development