

Saddam Hussain

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Senior Full Stack Engineer

Python | JavaScript | Agentic AI

Full-stack engineer with 8+ years building and shipping production web applications, working across Python, Django, FastAPI, TypeScript, React, Next.js and Node.js. Experience delivering AI powered SaaS platforms end to end, including production AI features such as document processing and multi-agent automation. Comfortable across PostgreSQL and MongoDB, REST and GraphQL APIs, Docker, and AWS. Working day to day with AI coding agents (Claude Code, Codex) for scaffolding, refactoring, and debugging, while reviewing every diff and backing changes with type checks and tests.

PROFESSIONAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Backend: Django (DRF), FastAPI, Node.js, Express, REST APIs, GraphQL APIs

Frontend: React, Next.js, Redux, Material UI, Tailwind CSS

Databases: PostgreSQL, MySQL, SQLite, MongoDB, Redis, Supabase

Cloud & DevOps: AWS, Azure, GCP, Docker, CI/CD (GitHub Actions)

AI: LLM, Agentic AI, Generative AI, OpenAI API, AI assisted development (Claude Code, Codex), Google Vision

Other: RBAC & Authentication, React Testing Library, basedpyright, NumPy, Pandas

WORK EXPERIENCE

Stech Experts LTD | Remote

Senior Full Stack Engineer | Apr 2025 – Present

- Core full stack engineer on Aimyable; an AI-powered accounts payable automation SaaS, built using Django DRF, Next.js, TypeScript, and PostgreSQL, containerized with Docker and deployed on AWS.
- Contributed to system design alongside the CTO and owning implementation across backend services, data modeling, and frontend workflows.
- Built a multi-agent workflow engine that routes tasks across specialized agents, including a Step Agent for orchestration, a DB Agent for data queries, and an RPA agent for UI actions, to run multi-step invoice automation.
- Develop day to day with AI (Claude Code) for scaffolding, refactoring, and debugging across a multi-repo codebase, reviewing every diff and backing changes with type checks before merge.
- Worked on invoice ingestion system and data extraction using the Google Cloud Vision API (Python SDK) to run OCR over invoice documents and parse them into structured fields, so invoice data flows into the system automatically instead of being keyed in by hand.
- Built an orchestration layer that ties database operations together with RPA-driven UI actions and talks to the Windows RPA client over WebSockets for real-time task dispatch and status. As a result, a single workflow can complete an accounts-payable task from start to finish with no manual handoff between steps.
- Built authentication and provisioning: invitation-based registration, token validation and acceptance, RBAC, user-tenant linkage, onboarding and password gating, custom session-refresh logic, and token based machine to machine auth for the RPA client.
- Designed normalized PostgreSQL schemas and core REST APIs for onboarding, invitations, business management, subscriptions, and invoice workflows, with service-layer separation, serializer validation, and static type checking via basedpyright to catch errors before they reach runtime.
- Contributed to the multi-step onboarding and admin experience in Next.js with Material UI and React Hook Form. This enabled new businesses to sign up and configure their account autonomously reducing workload on account managers.
- Integrated the Bland AI voice agent into the backend to automate the review-collection feature.

- Worked across a hybrid backend in Node.js and Python (Django) with integration workflows, data processing, and core services.
- Set up NextAuth.js for web-app authentication, keeping auth logic server-side.
- Improved reliability and performance with caching, load balancing, and Docker-based containerization.

Inner Machinations (Silicon Valley) | Remote

Senior Full Stack Engineer / Team Lead | Mar 2024 – Apr 2025

- Led development of Udu.com, a topic-based communication platform, heading a team of 5 senior developers in an Agile process.
- Built and optimized the front end in TypeScript and React (Next.js), cutting page load times by around 25% through component and API improvements.
- Developed APIs in Node.js restructuring parts of the application architecture for separation and performance.
- Moved critical operations to Next.js Server Actions, removing round-trips to external services and noticeably speeding up data-intensive flows.
- Customized a Clerk integration for user and organization auth, simplifying the admin and user-management workflows the product owner relied on.
- Built posting and interaction features along with text content, media attachments (images/PDFs), commenting, and topic/discussion search.

Banyo Ltd | Lahore

Full Stack Developer | Apr 2023 – Mar 2024

- Built a POS and inventory web app with a Django backend and Next.js frontend, covering a broad set of REST APIs across the product's modules.
- Implemented real-time inventory management with Django REST Framework and MongoDB, improving stock and sales sync latency and accuracy.
- Built a responsive POS UI in Next.js using server-side rendering.
- Set up AWS infrastructure (EC2) for the application, supporting growth in the user base as the product scaled.
- Set up a CI/CD pipeline with Git and GitHub Actions, removing manual deployment steps.

One Clout | Lahore

Full Stack Developer | Jul 2022 - Aug 2023

- Built TypeScript backend services in Node.js, improving maintainability and reducing recurring production bugs.
- Worked across full-stack projects with GraphQL and REST APIs, improving data-retrieval performance for key queries.
- Integrated MapBox and satellite mapping into the product's mapping features.
- Built web apps with React and Redux-Saga.
- Set up PostgreSQL deployment and GitHub-based CI/CD, shortening deployment time and tightening the release process.

Smart Venture Technologies | Lahore

Full Stack Developer | Jul 2020 - Aug 2022

- Carried out full-stack development, boosting project efficiency by 38% and team collaboration.
- Mastered diverse technologies and APIs, augmenting application functionality by 26% and user experience by 20%.
- Utilized advanced development frameworks such as Antd, Material UI, SQL, PostgreSQL, Docker, and GitHub CI/CD, this accelerated the project completion pace by 25%.

Linked Matrix | Lahore

Web Developer | Dec 2018 - Aug 2020

- Developed a robust PostgreSQL database that efficiently managed large volumes of sensitive HR data, ensuring rapid data access and secure transactions, which enhanced data retrieval by 40%.
- Carried out frontend development using react and building responsive and intuitive UI.

EDUCATION

BS Computer Science

University of the Punjab | 2014 - 2018