

Ameer Hamza.

SENIOR FULL-STACK, CLOUD & AI ENGINEER

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Backend-focused full-stack engineer with 8 years of production experience. I build systems in regulated domains where being wrong has consequences, from IRS tax filing infrastructure to real-time energy monitoring. For the past year, I've been running AI agent workflows inside real deployment pipelines, with security enforced by the system rather than relying on a model to follow instructions.

01 EXPERIENCE

Cinnova Technologies, LLC | Senior Software Engineer

FEB 2022 TO PRESENT · LAHORE, PAKISTAN · REMOTE, US CLIENTS

TabService, IRS-authorized A2A e-filing platform. Built end to end. Handles 1099-R, 1098-T, 1098-E, 1099-B, 1099-C, 3921 and 3922, generates XML validated against IRS XSD schemas, produces the matching PDFs, and manages submission to the IRS.

- IRS schemas change every tax year and rejected submissions return little useful diagnostic information, so validation is schema-driven and enforced inside the system before anything reaches the IRS
- Owned the Azure infrastructure: Function App deployments, P2S VPN, APIM rate limiting
- Led a MySQL to PostgreSQL migration covering schema design, field mapping and legacy data integration

Melink, solar and energy monitoring platform. Real-time dashboards for energy and operational data, kept responsive while data never stops arriving and large datasets move through the system at the same time.

- Live WebSocket updates feeding the interface while ETL pipelines (SSIS, Azure Data Factory) move thousands of records a day
- Cut dashboard load time by 35% through work across queries, the API layer and the frontend

Agent-driven engineering workflow. Built the automation the team now works inside.

- A Jira ticket moves from implementation to deployment through Claude Agent SDK agents with persistent per-repository context
- Security controls enforced at the hook level rather than by instructing the model, so the agent cannot opt out of the boundary
- Playwright runs verification against the live application after deploy; a successful deployment is not treated as proof the release works
- Architecture and security decisions escalate to a human by design

REACT · TYPESCRIPT · NODE.JS · POSTGRES SQL · SQL SERVER · MONGODB · AZURE (FUNCTIONS, DATA FACTORY, APP SERVICE, APIM) · .NET/C# · SSIS

Suave Solutions | Software Engineer

FEB 2021 TO FEB 2022 · LAHORE, PAKISTAN

- Built LokSujag, the publishing platform for a UK-based Urdu-language news outlet. Right-to-left layout with mid-direction English inline, for a readership on low-bandwidth mobile connections, so layout and page weight were the constraints rather than features
- Built an e-commerce platform on React and Next.js, using server-side rendering for SEO and page-load performance
- Ran deployments on AWS EC2 and S3 with CI/CD pipelines and environment configuration

REACT · NEXT.JS · AWS (EC2, S3) · JIRA

The Hexaa | Associate Software Engineer

FEB 2019 TO JAN 2021 · LAHORE, PAKISTAN

- Developed CMS, CRM, ERP and community e-commerce platforms with React, Next.js, Node.js and Express
- Worked across several Node ORMs and ODMs (Sequelize, Mongoose, Knex, Bookshelf), integrating SQL and NoSQL data layers
- Built reusable UI components and SSR architecture used across multiple products

REACT · NEXT.JS · NODE.JS · EXPRESS · SOCKET.IO

02 TECHNICAL

CORE TypeScript, JavaScript, Node.js, React, Next.js, SQL, C#

BACKEND/DATA Express, NestJS, REST, GraphQL, WebSockets, PostgreSQL, SQL Server, MongoDB, Prisma, SSIS

CLOUD & AI Azure (Functions, Data Factory, App Service, APIM), AWS (EC2, S3), Docker, CI/CD, Claude Agent SDK

03 EDUCATION

BS Information Technology · University of Education, Lahore, Pakistan · 2014 to 2018