Afnan Muhammad

Full-Stack Software Engineer & Architect

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PROFESSIONAL SUMMARY

Software Engineer specializing in the architecture of scalable, high-performance web applications and APIs. Expertise in UI/UX design & integrating Data Science and AI models. Sovereign Stack approach: deploying vendor-agnostic, self-hosted infrastructure to enhance system control and minimize reliance on expensive PaaS solutions.

CORE TECHNICAL COMPETENCIES

Languages: TypeScript, Python, Java, JavaScript, C++, SQL.

Frontend Ecosystem: Next.js, React, Tailwind CSS, PWA Architecture, SSR/SSG.

Backend & APIs: Django, Node.js, FastAPI, Java Spring Boot, RESTful & GraphQL APIs, WebSockets.

Databases & ORMs: PostgreSQL, MongoDB, MySQL, Prisma, Drizzle.

DevOps & Infrastructure: Docker, VPS, Linux, Coolify, AWS, CI/CD Pipelines.

ENGINEERING PROJECTS

DevHuddle - *Developer Collaboration Environment in Django fullstack*

CoreClip - *Architected an automated short videos creation pipeline.*

Taskus - *PWA for task management using low-level browser APIs*

Willayer - *Developing a unified cross-platform video downloading and AI content manipulation Web App leveraging Python/TypeScript APIs and cloud storage.*

EDUCATION

Bachelor of IT - *Bahauddin Zakariya University (2021 - 2025)*

Focus: Programming (C++, Java, Python), Database Management, IT Project Management, OOP, Data Structures & Algorithms, Software Engineering Cyber Security, Advanced Mathematics, Web Technologies (HTML, CSS, JS, PHP, Bootstrap/Tailwind), Social & Biological Sciences.