

Muhammad Abdullah

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SUMMARY

Solution-driven Software Engineer specializing in scalable multi-tenant SaaS platforms, secure system architectures, and AI-integrated products. Translate complex business requirements into production-ready full-stack solutions across Next.js, FastAPI, PostgreSQL, and AWS, with a focus on clean, maintainable, and performant code.

EDUCATION

FAST NUCES

Bachelor in Software Engineering

2021 – 2025

Punjab College

F.Sc. - Pre-Engineering

2019 – 2021

EXPERIENCE

Software Engineer

Oct 2025 – Present

Oriental Nippon Development

- Collaborated directly with Japanese stakeholders to translate detailed business requirements into technical specifications and production-ready full-stack features.
- Engineered and maintained scalable modules, designed relational databases, and integrated AI solutions while ensuring clean, maintainable, and performant code.
- Led SQA activities to ensure production readiness, stability, and long-term sustainability of delivered systems.

Project Manager and QA

Jun 2025 – Sep 2025

DevShine

- Managed 5+ concurrent client projects with a focus on quality and on-time delivery.
- Led a team of 6 developers and implemented Agile methodologies to streamline workflow and improve delivery velocity.
- Owned Software Quality Assurance (SQA) processes to enforce high standards across all deliverables.

Next.js Team Lead

May 2024 – Present

DevBerry (Co-founded)

- Co-founded an IT consulting and development startup, growing it to 10+ delivered client projects.
- Led a Next.js team to deliver high-quality client applications, ensuring scalability and on-time delivery.
- Partnered with clients to define requirements and translate business needs into technical solutions.

Freelance Software Engineer

Sep 2024 – Jan 2025

Fiverr

- Delivered robust backend solutions for global clients using Haskell and functional programming principles, reducing defects by 30% and improving performance.
- Maintained a 5-star rating by meeting 100% of deadlines, ensuring clear communication, and consistently exceeding client expectations.

PROJECTS

Tasukaru | *Next.js, FastAPI, PostgreSQL, Ory (Kratos/Keto), Docker, OpenAI, Multi-tenant SaaS*

- Built a full-stack care-management platform for 10+ Japanese welfare facilities with health tracking, Individual Support Plans (ISP), and AI-powered interview transcription and summarization.
- Engineered OpenAI-based streaming workflows to extract assessment/ISP fields from transcripts, applying prompt caching and batching to cut latency and cost by 35% while improving documentation accuracy.
- Designed multi-tenant, role-based access systems with SMS alerts, ensuring production-ready, scalable, and maintainable deployments.
- Containerized applications with Docker to maintain consistent environments and high system reliability across full-stack deployments.

Educura | *Next.js, FastAPI, PostgreSQL, Ory Kratos/Keto, Nginx, Docker*

- Built a multi-tenant, microservices LMS delivering 50+ multilingual courses across isolated tenant subdomains.

- Architected domain-driven FastAPI microservices behind an Nginx gateway with centralized edge auth: sessions validated once, trusted identity headers injected into a zero-trust service mesh.
- Engineered two-layer authorization with Ory Kratos (identity) and Ory Keto (relationship-based permissions), enforcing tenant capabilities and separation-of-duties workflows.

NipponHub | *Next.js, pnpm Workspaces, Decap CMS, AWS S3/CloudFront, CI/CD*

- Architected a monorepo hosting 5 multilingual websites for Oriental Nippon Development, enabling unified content management from a single CMS.
- Built a centralized React UI library of reusable components leveraged across all websites, reducing duplicate code and speeding up feature delivery.
- Implemented a Markdown + Decap CMS workflow, allowing non-developers to edit pages, posts, and events while preserving localization.
- Configured GitHub Actions CI/CD to generate static builds and deploy to AWS S3 with CloudFront cache invalidation, using distinct staging and production pipelines.

Kirayapay | *Next.js, Node.js, MongoDB, CI/CD, Docker, Redis, PWA*

- Developed a full-stack rental-property management platform with RBAC, ticketing systems, financial tools, and dynamic contracts, improving operational efficiency by 40%.
- Engineered CI/CD pipelines via GitHub Actions, reducing deployment time by 30% through DevOps automation.
- Containerized services with Docker to ensure consistent development and production environments.
- Architected cloud infrastructure ensuring high availability and scalability with 99.9% uptime for production-grade performance.

Slasher | *React Native, NestJS, PostgreSQL, Stripe*

- Built a social networking platform for horror fans featuring community engagement, content sharing, and interactive user experiences.
- Served as the primary point of contact for the client, translating business requirements into technical deliverables with clear, timely communication.
- Implemented responsive UI, optimized media delivery, and integrated secure Stripe payment workflows for subscriptions.

PasswordPact | *Next.js, FastAPI, PostgreSQL, AWS Nitro Enclaves, AWS KMS, Docker*

- Built a secure digital-legacy platform enabling users to transfer passwords, credentials, and sensitive documents through encrypted Event Vaults.
- Developed security-critical FastAPI services leveraging AWS Nitro Enclaves, cryptographic attestation, AWS KMS, and NIST-approved cryptographic modules to implement a zero-knowledge architecture.
- Engineered encrypted vaults, trustee-based access control, and cryptographic key management to keep confidential data inaccessible until predefined event conditions were satisfied.

CERTIFICATIONS

Building with the Claude API Anthropic	2026
Build LookML Objects in Looker Google Cloud Skills Boost	2025
Analyze Sentiment with Natural Language API Google Cloud Skills Boost	2025
Generative AI Explorer - Vertex AI Google Cloud Skills Boost	2025
Exploratory Data Analysis for Machine Learning IBM	2024
Generative AI Essentials: Overview and Impact University of Michigan	2024
Crash Course on Python Google	2024

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL, HTML/CSS, Bash, YAML
Frameworks: Next.js, React, FastAPI, Node.js, Express.js, NestJS, Tailwind CSS, Socket.io
Testing: Playwright, Pytest, Jest
Databases: PostgreSQL, MongoDB, MySQL, Redis, Supabase, Firebase
Cloud & DevOps: AWS (EC2, S3, CloudFront, KMS, Nitro Enclaves), GCP, Docker, Kubernetes, GitHub Actions, CI/CD, Nginx, Vercel
AI & LLM: OpenAI API, Claude, Gemini, Prompt Engineering, AI Agent Integration
Architecture: Microservices, Multi-Tenant & Event-Driven Architecture, REST APIs, RBAC, Authentication & Authorization, Monorepo, Clean Architecture, System Design

Interests: Open-Source Contribution, Tech Entrepreneurship, Arabic Language Learning, Islamic Studies, Community Building, Reading (technology & philosophy).