Muhammed Fayis K

Full-Stack Developer

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Summary

Full-Stack Developer with hands-on experience building production-ready web applications and SaaS platforms. Strong background in React, Next.js, Node.js, and TypeScript, with practical experience in RESTful APIs, real-time systems, authentication, authorization, and AI-powered features. Proven ability to deliver scalable, secure, end-to-end applications including dashboards, subscriptions, and embeddable widgets.

Skills

Languages: JavaScript, TypeScript, C, Java
Frontend: React, Next.js (App Router), Tailwind CSS, Shadcn UI, Radix UI, HTML, CSS
Backend: Node.js, Express, REST APIs, WebSockets
Databases: PostgreSQL, MySQL, MongoDB, Convex
Tools & Platforms: Git, GitHub, Vercel, CI/CD, JWT, Clerk, Nodemailer, Inngest, Stream SDK
Concepts: SaaS Architecture, Multi-Tenant Systems, Authentication, Authorization, RBAC, Real-Time Applications

Projects

Real-Time Chat & Video Call Application

Node.js, Express, MongoDB, React, Stream Chat, Stream Video, JWT

- Built a real-time chat and video calling platform supporting rooms with up to **20 concurrent participants**.
- Integrated Stream Chat and Stream Video SDKs to enable messaging, presence indicators, and call controls.
- Improved UI maintainability by introducing **15+ reusable components and shared hooks** across chat and call screens.

Echo SaaS — AI Chat Widget Platform

Next.js, React, TypeScript, Convex, Gemini AI, RAG, Clerk, Vapi

- Designed and delivered a multi-tenant AI customer support SaaS with an embeddable chat widget integrated across **3 client types** (HTML, React, Next.js).
- Implemented Retrieval-Augmented Generation (RAG) pipelines serving document-grounded responses across **5+ knowledge sources per workspace**.
- Engineered real-time communication features including voice chat, file uploads, AI suggestions, and session handling, supporting **10+ concurrent active sessions**.
- Built a secure admin dashboard to manage conversations, files, integrations, and subscriptions with protected APIs and routes.

Family Tree Generator

React, Node.js, Express, PostgreSQL, Tailwind CSS

- Architected an interactive family-tree application supporting **100+ members per tree** with automated lineage visualization.
- Designed normalized PostgreSQL schemas and indexed queries to maintain typical load times under **300 ms**.
- Implemented secure CRUD APIs with JWT-based authentication and validation to prevent duplicate and invalid records.

Real-Time Stock Market Dashboard

Next.js, TypeScript, Tailwind CSS, MongoDB

- Created a real-time stock market dashboard displaying live prices for **1,000+ tickers**.
- Implemented authentication and role-based access supporting **3 distinct user roles** with separate permission levels.
- Optimized server actions and frontend rendering to reduce page load times by **30%** on core dashboard pages.

Education

Bharathidasan University (BDU)   2022–2025
Bachelor of Arts (BA), English