

# Zain Amroti

## Backend / Full-Stack Engineer

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Backend-focused full-stack engineer with 4+ years of remote professional experience and programming foundations going back to 2016. I build production APIs, admin systems, mobile app backends, AI chat/RAG services, and integration-heavy product workflows for small teams and client products.

- Best fit: small teams, founders, agencies, and solo product owners.
- Preferred capacity: 20-25 focused hours/week, flexible and outcome-driven.
- AI accelerates my workflow; fundamentals come from coding since 2016.

## Core Stack

### Backend

Node.js, NestJS, Express.js, TypeScript, REST APIs, WebSockets, Swagger/OpenAPI, auth/RBAC, queues, background jobs

### Data & Infrastructure

PostgreSQL, TypeORM, migrations, Redis, Firebase, AWS S3/SES/SNS/SQS, deployment-facing debugging

### AI / RAG

OpenAI, Pinecone, LangChain, embeddings, retrieval pipelines, document/PDF parsing, conversation persistence, streaming chat

### Frontend & Product

Next.js, React, Redux, Tailwind, Material UI, Chakra UI, CoreUI, admin dashboards, forms, tables, charts

### Integrations

Stripe, Vimeo, WordPress, HighLevel, Firebase Admin, Google/Facebook OAuth, JWT/passport, third-party APIs

### Web3

Solidity, Hardhat, ethers.js, wagmi, RainbowKit, Thirdweb, OpenZeppelin, Chainlink, wallet and token/NFT flows

## Selected Experience

2025 - May 2026

Remote contract

### Backend / Full-Stack Engineer - Dubya Digital / Renew University

- Built and maintained production NestJS backends for Renew University mobile/admin products and Renew AI bot v2/v3 after the project moved to Dubya Digital.
- Delivered auth, MFA, videos, ebooks, media, groups, gatherings, notifications, profile, feed, search, migrations, tools, and dashboard workflows.
- Integrated PostgreSQL, TypeORM, Redis/BullMQ, Firebase Admin, AWS, Vimeo, WordPress, HighLevel, Swagger, OpenAI, Pinecone, and LangChain.

2025 - May 2026

Remote contract

### AI Backend Engineer - Renew / Ask Bible AI Bot

- Built AI chat and RAG backend services with document ingestion, PDF/HTML parsing, embeddings, retrieval pipelines, and conversation persistence.
- Supported an embeddable Next.js chat frontend with same-origin streaming/proxy architecture and production-ready API boundaries.

## Selected Experience Continued

2024 - 2025

Remote contract

### Backend Engineer - Adventures in Mission / Relief Platform

- Built NestJS APIs for mission/relief operations, including authentication, users, file handling, AWS S3/SES/SNS, and WebSocket workflows.
- Implemented PostgreSQL/TypeORM workflows, Google OAuth, JWT/passport, CSV import/export, API docs, and operational backend tooling.

2024

Remote contract

### Backend / Full-Stack Engineer - Appleton Client Projects

- Delivered backend services and dashboards across multiple Appleton Automation client projects, including Adventures in Mission and Renew AI bot v1.
- Built NestJS services with PostgreSQL, TypeORM, AWS S3/SES, OAuth, JWT/passport, scheduled jobs, Excel/XLSX processing, uploads, and Swagger.

2023

Remote contract

### Full-Stack Engineer - Zuso Dental Platform

- Contributed across NestJS backend and Next.js frontend for a dental platform with admin and user workflows.
- Built backend features with PostgreSQL, TypeORM, Bull queues, AWS S3/SES/SNS/SQS, migrations, seeders, Stripe flows, imports, and dashboards.

2021 - 2023

Remote freelance

### Full-Stack / Web3 Freelancer - Client Projects

- Built React/Next.js Web3 frontends, Node.js APIs, backend integrations, and Solidity/Hardhat smart contract projects.
- Worked with ethers.js, wagmi, RainbowKit, Thirdweb, OpenZeppelin, Chainlink, wallet integrations, token contracts, and NFT contracts.

## Project Highlights

### Renew University Backend

Production NestJS backend for admin/mobile content workflows, media, videos, ebooks, notifications, search, migrations, Vimeo, WordPress, HighLevel, Firebase, PostgreSQL, Redis/BullMQ, and AWS.

### Renew / Ask Bible AI Bot

AI/RAG services using OpenAI, Pinecone, LangChain, Redis, PostgreSQL, AWS S3, PDF/HTML parsing, conversation persistence, and embedded chat frontend support.

### Zuso Dental Platform

Full-stack dental platform with NestJS, Next.js, PostgreSQL, AWS services, Bull queues, Stripe coupon/payment flows, import jobs, and admin dashboards.

### Adventures in Mission Backend

NestJS backend for mission/relief operations with auth, users, AWS S3/SES/SNS, WebSockets, CSV import/export, Swagger, and PostgreSQL.

## Earlier Roles

Dec 2021 - Oct 2022

Pakistan / Remote

**Software Engineer - Easyfresh Technologies.** Backend, admin portal, mobile workflows, testing, CI/CD, and customer communication features.

Nov 2021 - Jan 2022

Remote / part-time overlap

**Full-Stack Engineer - Jobit Technologies.** Part-time frontend/backend features, UI fixes, and Stripe payment/pricing workflows.

2021

Remote / Hybrid

**Flutter Developer - Technoshia.** Food-ordering apps for user, restaurant, and rider workflows with auth, maps, cart, payments, and push notifications.