

Mehmet Aziz Algüllü

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SUMMARY

Senior Full Stack Software Developer with 5+ years of experience building SaaS platforms, serverless applications and e-commerce systems with Node.js, TypeScript, AWS and Next.js. Recently focused on LLM-powered features: built tool-calling agents with LangChain and LangGraph, including human-in-the-loop approval, least-privilege data access and audit logging. Contributed to production systems serving hundreds of thousands of end users across retail, aviation, banking and customer-support domains.

SKILLS

- **AI:** LangChain, LangGraph (stateful agents, checkpointing, human-in-the-loop), Agent architectures & multi-agent orchestration, Tool calling (function calling), Anthropic, OpenAI & DeepSeek APIs, RAG, pgvector, MCP
- **Frontend:** HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Redux
- **Backend:** Node.js, TypeScript, AWS Lambda, Express.js, NestJS, GraphQL, WebSockets, REST APIs, tRPC
- **Testing:** Jest, Vitest, Mocha, Chai
- **Cloud & DevOps:** AWS API Gateway, AWS CloudWatch, AWS IAM, AWS S3, AWS DynamoDB, AWS SQS, AWS Secrets Manager, AWS ElastiCache, Docker, GitHub Actions, CI/CD, Nginx, PM2, AWS CloudFormation, Vercel
- **Database:** MySQL, PostgreSQL, MongoDB, Redis, DynamoDB
- **Other Tools & Concepts:** Git, OAuth2, Microservices, Serverless Architecture, Event-Driven Architecture, Monorepo Architecture, Webhook Integrations, Sentry

LANGUAGES

- English: Fluent
- Turkish: Native

WORK EXPERIENCES

Furavo

2025 Jul - 2026 Jul

Founder & Lead Software Engineer - Full Time - Remote

- Architected and built a direct-to-consumer e-commerce platform from scratch using **Next.js (App Router)**, **TypeScript**, **Node.js**, and **PostgreSQL**, deployed on a self-managed VPS with **Dokploy**; owned the product end to end, from development through production operations.
- Built an internal admin platform for order management, shipment tracking, invoicing, and operational reporting using **Next.js**, **TypeScript**, and **PostgreSQL**.

- Automated order, payment, and invoicing workflows by integrating **PayTR**, **Navlungo**, and Turkey's **e-Archive** invoicing system via **REST APIs**, **webhooks**, and scheduled jobs, reducing manual processing.
- Implemented server-side conversion tracking and campaign attribution using **Meta Conversions API** and **TikTok Business API**.
- Developed daily profitability reporting in **PostgreSQL**, combining advertising spend, shipping costs, and product costs.
- Built an AI operations assistant in the admin panel using **LangChain** and **LangGraph**, with a tool-calling agent that queries orders, checks live shipment status and costs via the carrier API, and drafts order approvals and shipment creation.
- Implemented **human-in-the-loop** approval for all write actions and bulk external queries, with conversation state persisted in **PostgreSQL** via **LangGraph checkpointing**.
- Secured the agent's database access using least-privilege **PostgreSQL roles** with column-level grants that exclude customer PII, and logged every tool call to an append-only audit log.
- Built a provider-agnostic LLM layer supporting **Anthropic**, **OpenAI**, and **DeepSeek** models, with **SSE streaming** and per-conversation model locking.
- Developed a rule-based problem-shipment detector over **Navlungo** carrier event logs using **TypeScript** and **PostgreSQL**, flagging stalled deliveries and failed delivery attempts for customer follow-up.
- Wrote automated tests for the agent using **Vitest** and **PGLite**, including permission tests that run real SQL against the restricted database roles.

Insider One

2023 Feb - 2025 Oct

Customer Engineer - Full Time - Remote

- Developed and maintained enterprise chatbot integrations using **Node.js**, **TypeScript**, **AWS Lambda**, **AWS SQS**, **DynamoDB**, **Redis**, **MySQL**, and **MongoDB**.
- Built AI-powered chatbots with **LangChain** and **OpenAI API**, using **text embeddings** for semantic search and context-aware responses.
- Built custom **REST API and webhook integrations** for use cases including order tracking, customer data retrieval, product discovery, and customer-support workflows.
- Integrated **Zendesk**, **Freshdesk**, and **WhatsApp Business Platform** with chatbot systems, enabling automated conversations to transition into live-support workflows.
- Designed asynchronous and event-driven integration flows using **AWS Lambda**, **AWS SQS**, **Webhooks**, and **DynamoDB** to improve reliability and fault tolerance.
- Architected and maintained a **monorepo** supporting multiple AWS Lambda services and customer-specific integration projects.
- Built and maintained **CI/CD pipelines with GitHub Actions** to automate testing and deployment workflows.
- Developed monitoring and incident-management workflows using **Sentry**, **AWS SQS**, and **Zendesk** to detect integration failures and automate operational alerts.
- Wrote and maintained automated backend tests using **Mocha** and **Chai** for production integration services.
- Contributed to production systems serving hundreds of thousands of end users across enterprise customers in retail, aviation, banking, and customer-support domains.

Ekip.co

2022 Oct - 2023 Jan

Full Stack Software Developer - Full Time - Remote

- Developed full-stack features for a logistics and freight-management platform using **React**, **TypeScript**, **NestJS**, and **TypeORM**.

- Built backend APIs for shipment and operational workflows using **Node.js, NestJS, TypeORM, and REST APIs**.
- Developed real-time shipment and location-tracking functionality using **Socket.IO and WebSockets**.
- Built administrative interfaces for freight assignment, shipment monitoring, and operational workflows using **React, Redux Toolkit, and Material UI**.
- Integrated external services including **Stripe, VTEX, and HubSpot** into application workflows.

Suitech Software

2022 March - 2022 Oct

Software Developer - Full Time - Remote

- Developed frontend applications for cryptocurrency and blockchain products using **React and Next.js**.
- Built backend APIs for multiple products using **Node.js, TypeScript, Strapi, and Express.js**.
- Implemented blockchain and wallet integrations using **Web3.js, Ethers.js, HDWallet Provider, and MetaMask-compatible workflows**.
- Worked across **The X Protocol, cryptocurrency swap, and ByEPIX/Dividus-related applications**, contributing to both frontend and backend development.
- Developed web interfaces connecting game and cryptocurrency functionality with user-facing blockchain workflows.

Elçi Teknoloji

2021 March - 2022 March

Software Developer - Full Time - On-Site (Ankara/Turkey)

- Developed full-stack features for a real-time video communication platform using **React, TypeScript, Node.js, Express.js, and PostgreSQL**.
- Built real-time video conferencing functionality using **LiveKit and WebRTC**.
- Developed real-time messaging and application events using **WebSockets and Socket.IO**.
- Built administrative interfaces using **React, Redux, and Material UI** for managing meetings, employees, and platform operations.
- Developed backend APIs for tenant administration and customer-facing applications using **Node.js, Express.js, and PostgreSQL**.

FREELANCE EXPERIENCES

Walnut Istanbul

2022

Software Developer - Full Time - Remote

- Developed full-stack features for a map-based metaverse platform using **React, TypeScript, Next.js, Node.js, Strapi, and MySQL**.
- Built interactive geospatial functionality using **Mapbox and Turf.js** for browsing and managing purchasable virtual land areas.
- Developed frontend workflows for purchasing, renting, and managing map-based advertising areas using **React, Next.js, and TypeScript**.
- Worked with **Docker and Nginx** for application deployment and infrastructure.

CERTIFICATES

Udemy

- [Nextjs & React](#)
- [AWS Serverless APIs & Apps - A Complete Introduction](#)
- [Nestjs Microservices](#)
- [Advanced React: Design System, Design Patterns, Performance](#)
- [Docker & Kubernetes: The Practical Guide](#)
- [Microfrontends with React: A Complete](#)

Sololearn

- [Web Development Fundamentals](#)
- [Html, Css](#)
- [Javascript, Javascript Intermediate](#)
- [React & Redux , Angular & NestJS](#)
- [SQL](#)
- [Introduction to C, C Intermediate](#)

HOBBY PROJECTS

- [ReCap Rental Car \(Frontend\)](#)
 - HTML, CSS, Bootstrap, Javascript, TypeScript, Angular, Ngxs, NgRx
- [ReCap Rental Car \(Backend\)](#)
 - C#, Asp.NetCore, Fluent Validation, Autofac, Entity Framework, LINQ