

NEZIH TARTILACI

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EXPERIENCE

Fullstack Engineer / **Founder**

Hoobe LLC

Nov 2024 – Present

Remote, TR, USA

Projects

plan0.ai

AI-Powered Preconstruction Cost Estimation & Analytics

» **Company Website** «

Public-facing marketing site with cinematic animations and an interactive 3D building model.

- Statically exported and globally distributed via **AWS S3** + **CloudFront** CDN.
- Built scroll-triggered animations, smooth inertia scrolling, and parallax effects using **GSAP**.
- Rendered an interactive **3D building model** in-browser with **Three.js** / @react-three/fiber.
- **Stack:** Next.js 16, React 19, TypeScript, Tailwind CSS v4

» **Proposal Document Generator** «

Internal tool that automates professional .docx proposal generation for consultants.

- Integrated **Google Gemini** to extract project addresses from uploaded PDF tender documents.
- Implemented **Google Places API** autocomplete and a **PostgreSQL**-backed consultant bio registry.
- Built a **Docxtemplater/PizZip** rendering pipeline for branded Word templates with conditional sections.
- **Stack:** React 19, Vite, TypeScript, Tailwind CSS v4 · Node.js, Express v5, PostgreSQL, Multer

» **Construction Cost Analytics Platform** «

AI-powered benchmarking tool that extracts metadata from estimate files and runs ML models against 400+ historical projects to predict trade unit rates.

- Orchestrated multi-step **Python pipelines** from Node.js via `child_process.spawn`, capturing stdout/stderr and parsing structured JSON results.
- Designed a real-time log streaming system with **EventEmitter** and **Server-Sent Events (SSE)**, giving the frontend live visibility into long-running Python jobs.
- Integrated **PostgreSQL** (on **AWS EC2**) via **Prisma** (TypeScript) and **SQLAlchemy** (Python), with a CSV fallback for offline use.
- Built a Python ML pipeline with **scikit-learn** and **XGBoost** to predict unit rates across 10+ construction trades; results rendered as interactive **Plotly** visualizations.
- **Backend:** Node.js, TypeScript, Express, Prisma, Pino, Zod, Jest · **Frontend:** React 19, Vite, TypeScript, Tailwind CSS v4, Plotly.js

» **Construction Estimation App** «

Large-scale SPA for construction cost estimation featuring GIS mapping, interactive canvas site planning, and real-time collaboration.

- Contributed to frontend development across multiple features of the application.
- **Stack:** React 18, TypeScript, Vite, Tailwind CSS v3, Konva.js, Fabric.js, CesiumJS, Chart.js, Socket.io, Redux Toolkit, Framer Motion

SUMMARY

Fullstack Engineer with 8+ years building scalable SaaS platforms. Specialized in **React**, **Next.js**, **TypeScript**, **Node.js**, and **GraphQL**. Experienced in AI integrations, Python orchestration, real-time systems, and shipping user-facing features with a strong focus on code quality and testing.

SKILLS

Frontend: HTML5, CSS3, SASS, Tailwind-CSS, Bootstrap, MUI, Ant Design, JavaScript (ES6+), React, Next.js, TypeScript, GraphQL, Webpack, Babel, ESLint

Backend: Node.js, NestJS, Express, PostgreSQL, MongoDB, Python

Testing: Cypress, React Testing Library, Jest, Enzyme

Other: Git, Docker, Jenkins, Postman, CI/CD, Monorepo, AWS

EDUCATION

Associate in Computer Programming

Istanbul Gedik University

2014 – 2016

Retcat

AI-Powered Hotel Reservation Automation

- Built a SaaS platform that automates hotel PMS data entry by processing inbound agency reservation emails end-to-end, eliminating manual input for hotel staff.
- Engineered a real-time **IMAP IDLE** email listener with allowlist filtering, PDF parsing, and **AI service** integration to extract structured reservation data.
- Designed full **Elektra PMS** integration: live price fetching, payload construction, reservation creation, and **JWT auto-refresh** on token expiry.
- **Frontend:** React, Redux, Tailwind CSS — hotel-facing dashboard for email and PMS credential management.
- **Backend:** Node.js, TypeScript, Express, PostgreSQL, Prisma, Docker, RBAC, AES-256-GCM encryption, cron jobs, Pino, Swagger.

Software Engineer

Craftgate

📅 Dec 2023 – Oct 2024

📍 Remote, TR

- Led frontend development across multiple products, driving accessibility, usability, and performance improvements.
- Built and maintained the company website with **Next.js**; improved SEO and page load performance.
- Optimized the customer panel with **React.js**, reducing load time by 40% under high daily usage.
- Implemented **Cypress** component and e2e tests; migrated legacy CRA to **CRACO** with custom Webpack configuration; resolved vulnerable dependency chains.
- Initiated and architected an internal **Design System** as a private npm package using **Storybook**, **Tailwind CSS**, **TypeScript**, and **React**, establishing scalable UI components and documentation.

Fullstack Engineer / Contractor

Confidential Client

📅 May 2023 – Aug 2023

📍 Remote, TR/GER

- Led **Vue 2** → **Vue 3** migration for mission-critical features, improving performance and developer experience.
- Established a modern dev toolchain with Prettier, ESLint, testing frameworks, and CI hooks, standardizing the shared development environment.
- Architected a maintainable frontend with **Vue 3 + Vite + TypeScript**, accelerating delivery and onboarding.
- Mentored engineers and conducted PR reviews to raise overall code quality and team consistency.

Frontend Engineer

Toptal

📅 Sep 2021 – Feb 2023

📍 Remote, USA

- Core contributor to the **Client Portal** team — one of Toptal's primary product domains — building client-facing features with **React**, **TypeScript**, and **Apollo GraphQL**.
- Migrated **100+** tests from Enzyme to **React Testing Library**, increasing coverage to **85%**.
- Drove code quality through **100+ PR reviews per quarter**; mentored teammates on testing best practices.

- Contributed to **Staff Portal**, a large-scale **micro-frontend** architecture, collaborating across squads on modular, scalable delivery.
 - Initiated a **monorepo** migration, reducing cross-project dependency conflicts by **30%**.
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Frontend Engineer

Segmentify

📅 Mar 2021 – Sep 2021

📍 Remote, TR

- Built features and resolved bugs for the **Client Panel** using React, Redux, and ES6+.
 - Modernized legacy class components with **React Hooks**, reducing technical debt and improving maintainability.
 - Supported teammates through code reviews and guidance, improving team delivery cadence.
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Fullstack Developer

Cloud Nesil

📅 Sep 2018 – Mar 2021

📍 On-site

- Developed backend services with **NestJS**, **TypeORM**, **PostgreSQL** and frontends with **React**, **Redux**, **React Query**.
 - Designed and shipped a staff panel for a London-based client, used daily by **200+** employees.
 - Optimized heavy data table rendering and big-data workflows, cutting load times by **50%**.
 - Containerized services with **Docker** and set up **Jenkins** CI/CD pipelines; automated e2e flows with NightmareJS.
-

Fullstack Developer

Gavth Studio

📅 Oct 2017 – Jul 2018

📍 Remote, UK

- Built REST and **GraphQL** APIs with **Node.js** and **MongoDB**.
 - Delivered **React + Next.js** client applications with SSR for improved SEO and performance.
-

Software Developer

Setrow Solutions

📅 Sep 2014 – Sep 2016

📍 On-site

- Built customer-facing tools including a Smart Pop-up engine, Loyalty Script, and data integrations using **PHP**, **MySQL**, and **JavaScript**.
- Processed high-volume datasets via **RabbitMQ** and **Redis**; automated scheduled tasks with Linux cron.