

alper degre

Software Engineer

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EDUCATION

Yıldız Technical University
Bachelor of Science in Electrical Engineering

Istanbul, Turkey

EXPERIENCE

Product Engineer

May 2022 – Present

Pickled Works

- Developed a full-stack AI report generation framework. Launched a product called ContentCodex that won 2nd place Product of the Day on Product Hunt. It uses NextJS with Typescript as backend and frontend. It also uses an Express server with Redis and Bull to process reports in a queue. User management and database is handled through Firebase.
- Developed an open source AI integration for Texts called AI Playground using Texts Platform SDK that lets you chat with various LLMs from different providers.
- Developed a full-stack web application that helps teams keep track of branding related tasks as a checklist. Built on NextJS with React frontend using Typescript. Used Prisma with PostgreSQL for database, used Clerk for authentication.
- Developed ChatGPT plugins using NextJS and tRPC as a backend. Auto generated Swagger API documentation from tRPC routes used as plugin manifest for OpenAI.
- Developed various chatbots using NextJS, Langchain and PineconeDB as a vector database
- Developed various experimental opensource Texts Platform integrations that implements Texts' native Platform SDK as a remote server.

PROJECTS

TicTacToe | *React, SQLite, FastAPI, Python, Github Actions*

- Developed an online TicTacToe game
- It uses Python with FastAPI in backend, fully tested and deployed CI/CD via Github Actions. Real-time communication is handled with WebSockets using events.
- Frontend is a React Vite App written with custom CSS animations for interactivity
- Backend of the project is open source and can be found on my Github

Go Url Shortener | *Go, React, PostgreSQL, Docker, Python*

- Developed a fullstack URL shortener to learn Go
- It uses Go as a backend, React as a frontend and Postgres as a database
- Uses docker with docker-compose to containerize whole setup
- Later added a Python version written with FastAPI as well. Both are hosted as a demo in <https://short.alperdegre.com/> with a switch changing the backend connection

Sample React App | *React, Javascript*

- Developed a React showcase app with Javascript
- Written tests for every component using React Testing Library
- It was my initial project to learn React properly

SKILLS

Languages: JavaScript, TypeScript, Go, Python, SQL (Postgres), HTML/CSS

Frameworks: React, Node.js, NextJS, FastAPI, Tailwind, Express.js, tRPC

Developer Tools: Git, Docker, Docker Compose, VS Code, Kubernetes, Github Actions

Libraries: React Query, Redux, Zustand, Radix UI, Shadcn, React Hook Form, Tanstack React Table, Drizzle, Prisma, Bull, ChartJS, Zod, MomentJS, VercelAI, Langchain

Databases: Postgres, MySQL, MongoDB, Firebase, Redis, Pinecone

Tools: Prettier, Jest, JSON, YAML, Websocket