

Gözde Şimşek

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EDUCATION

Ege University

Master's Degree in Bioinformatics, AI

Izmir, Turkey

2023 – Present

Ege University

Bachelor's Degree in Bioengineering; GPA: 3.59

Izmir, Turkey

2017 – 2022

EXPERIENCE

Fullstack Developer

Nov 2024 – Present

Skymod

Izmir, Turkey

- Implemented advanced RAG pipelines using LangChain, integrating high-performance instruction-tuned LLMs and executing vector operations in Milvus through matrix-based file ingestion workflows.
- Developed GenAI applications with frontier-class transformer models, leveraging function/tool calling, structured output formats, and MCP server integrations; built agentic and multi-agent systems, including SkyStudio Workflow for automated task orchestration.
- Engineered scalable full-stack AI platforms using React Hooks, Context API, Redux, Vite, and Node.js/Express, supporting real-time and streaming inference features via Socket.io.
- Delivered modern and responsive interfaces with shadcn/ui, Tailwind, and Framer Motion, and managed data/auth flows using Supabase and MongoDB.
- Deployed microservice-driven, containerized applications with Docker, implemented storage pipelines on AWS S3, managed cloud infrastructure across AWS EC2 and Microsoft Azure, and utilized Redis for caching and real-time data management.

Part-time Fullstack Developer

Dec 2023 – Aug 2024

Genfoquest Analytica

Izmir, Turkey

- Built scalable, component-based UIs with ReactJS, optimizing performance using Hooks and Context API.
- Developed high-performance FastAPI services with efficient async request handling.
- Optimized relational data workflows in PostgreSQL using indexing and query tuning.
- Containerized applications with Docker, improving deployment reliability and consistency.

Frontend Developer

Sept 2022 – July 2024

Uniqgene

Izmir, Turkey

- Designed and implemented responsive web and mobile interfaces using React.js, React Native, Next.js, and TypeScript, including advanced dashboard and admin panel architectures.
- Managed cloud-based storage and databases with Amazon S3 and designed scalable schemas using MongoDB and MySQL.
- Built robust backend services with Node.js and Express.js, integrating RESTful APIs for seamless client-server communication.
- Improved data-fetching performance with Axios and ensured maintainable state management using the Context API.

PROJECTS

Skymod Skystudio | React, Node.js, FastAPI, Supabase, Milvus, LangChain, TypeScript, Vite, Docker, AWS, Azure

Skymod Workflow | React, Socket.io, Node.js, Supabase

HistoParser | Machine Learning (SVM, Random Forest), CNN, OpenSlide, HistomicsTK, pyRadiomics

Uniqgene Dashboard & Mobile App | React, React Native, Node.js, MongoDB, MySQL, AWS

BMGLab Website | React, Netlify

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML/CSS

Frontend: React, React Native, Next.js, Angular, Redux, Context API, Vite, shadcn/ui, Tailwind CSS, Framer Motion

Backend: Node.js, Express.js, FastAPI, Socket.io

AI/ML: LangChain, RAG Pipelines, LLMs, NLTK, CNN, SVM

Databases: MongoDB, PostgreSQL, MySQL, Supabase, Milvus, Redis

Cloud & DevOps: Docker, AWS (EC2, S3), Microsoft Azure, Git, Grafana