

SALIH YILDIRIM

Senior Software Engineer | Applied AI

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Senior Software Engineer with 7+ years of experience building full-stack applications, backend services, and data pipelines. Current work focuses on agentic AI workflows, LLM-powered services, and integrations connecting models with application tools and data. Strong background in Python, React, TypeScript, and SQL, with production deployment experience on Azure and AWS.

CORE SKILLS

AI & LLM: Agentic Workflows, LLM Integration, Retrieval-Augmented Generation (RAG), Vector Databases, LangChain, Model Context Protocol (MCP), Tool Calling, Structured Outputs, OpenAI APIs, Claude Integrations

Backend & APIs: Python, FastAPI, ASP.NET, REST APIs, GraphQL, Microservices, Server-Sent Events (SSE)

Frontend: React, TypeScript, Angular, HTML, CSS

Databases & Messaging: PostgreSQL, SQL Server, RabbitMQ, Data Pipelines

Cloud & DevOps: Azure, AWS, Docker, CI/CD, Git

Engineering Practices: System Design, Testing, Code Review, Data Validation, Monitoring, AI Cost Controls

PROFESSIONAL EXPERIENCE

Senior Full-Stack Software Engineer

EGS Enggist & Grandjean Software SA | Remote

Jun 2024 – Present

- Design and implement agentic AI workflows connecting language models with application data and backend tools through tool calling, structured outputs, and MCP integrations.
- Build Python and FastAPI services supporting AI-powered features, workflow automation, and streamed responses using server-sent events.
- Develop React and TypeScript interfaces integrated with backend services, delivering features from requirements through production deployment.
- Build and maintain data pipelines and REST/GraphQL integrations supporting application and AI functionality.
- Implement validation, monitoring, and AI cost controls to support predictable system behavior and operational reliability.
- Lead architecture decisions, provide technical mentorship, and improve code quality through reviews, refactoring, and testing.
- Support CI/CD pipelines, Docker-based deployments, and production infrastructure on Azure.

Python Developer – Research & Development

Rimes Technologies International | Hybrid

Oct 2023 – May 2024

- Developed and maintained Python microservices using RabbitMQ to support reliable delivery of client data files.
- Built automated data-validation and monitoring workflows to detect processing errors and protect data integrity.
- Developed REST APIs for internal system integration and operational monitoring.
- Built and maintained Python and SQL data-processing pipelines, improving file-delivery workflows and reducing manual intervention.

Senior Full-Stack Software Engineer

CalcMenu Philippines Inc | Remote

Jan 2021 – Aug 2023

- Led the design and delivery of CalcMenu Cloud, replacing a legacy platform while maintaining continuity of customer service.
- Built full-stack applications using Angular, ASP.NET, Python microservices, and SQL Server.
- Designed modular frontend and backend components to improve maintainability and support ongoing product development.
- Developed containerized Python microservices using Docker and deployed and operated production services on Azure and AWS.
- Collaborated with distributed teams across Asia and Europe to deliver releases using Agile/Scrum practices.

Full-Stack Developer

CalcMenu Philippines Inc | On Site

Aug 2019 – Dec 2020

- Enhanced existing software through automation, reducing manual processes and improving efficiency.
- Implemented voice-command functionality in a flagship product to improve accessibility and usability.
- Maintained and optimized legacy systems during migration to newer platforms.
- Worked closely with cross-functional teams to deliver incremental, business-aligned improvements.

Full-Stack Developer

Various Clients

Jul 2017 – Aug 2019

- Delivered short-term full-stack web projects and system maintenance for multiple clients.
- Built and maintained applications using React, Angular, Python, and SQL Server.
- Implemented custom features, resolved production issues, and optimized application performance.
- Managed multiple concurrent projects and delivered consistently on schedule.

EDUCATION

Bachelor of Science in Information Technology

Trinity University of Asia

Aug 2015 – Jun 2019

Cum Laude

CERTIFICATIONS

- AI Engineering Specialization – Scrimba / Coursera (Apr 2026)
- Machine Learning Foundations: Linear Algebra

LANGUAGES

- English
- Turkish