

Emre YILDIZ

Software Architect & Engineering Lead

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Summary

Experienced Software Architect and Engineering Lead with 7+ years developing enterprise-scale applications. Strong expertise in full-stack development, microservices architecture, blockchain technologies, and cloud platforms. Proven track record of leading technical teams, upgrading legacy systems, and delivering high-performance solutions for B2B e-commerce, fintech, and Web3 applications. Passionate about innovative technology solutions and continuous learning.

Experience

Tech Lead

2023 – 2024

BergX Software

Remote

- Led technical decisions and architecture design for multiple projects
- Mentored team members and conducted code reviews
- Managed project timelines and technical deliverables

Software Engineer

2021 – 2023

Gunkom Software

Remote

- Upgraded company core boilerplate framework from .NET Core 3.1 to .NET Core 6.0
- Developed enterprise-level frontend and backend applications
- Implemented Python automation tools for development environment optimization
- Added REST API endpoints for workflow management system handling 65,000+ flows

Senior Software Engineer

2017 – Present

Freelance / Contract

Remote

- Developed B2B e-commerce platform with Angular frontend and ABP .NET backend for Altinyildiz Classics & Beymen Business
- Created blockchain analysis web and mobile applications using NextJS, React Native, and NestJS microservices (jrkripto.com)
- Built enterprise Flutter mobile app for customer-welder portal deployed to PlayStore and AppleStore (MagmaWeld)
- Implemented Swift iOS features for enterprise iPad application including custom keyboard for product ordering
- Developed NFC payment Android application with Java and bank gateway integration
- Created NestJS backend boilerplate with authentication, Redis cache, Bull queue, JWT, and cron jobs

Instructor

2017 – Present

Betul Cemre YILDIZ Chess and Robotic Organization

Izmir, Turkey

- Teaching C# programming and Linux administration to high school students
- Conducting drone certification courses

Education

Ege University

Izmir, Turkey

Master of Science in Computer Engineering; Concentration: Distributed Systems

2024 – 2026

Celal Bayar University

Manisa, Turkey

Bachelor of Science in Computer Engineering; GPA: 3.32/4.00

2020 – 2024

Ahmet Yassawi University

Turkestan, Kazakhstan

Bachelor of Science in Computer Engineering; GPA: 3.81/4.00

2019 – 2022

Dokuz Eylul University

Izmir, Turkey

Associate's Degree in Computer Programming; GPA: 3.40/4.00

2016 – 2018

Technical Skills

Languages: C#, TypeScript, JavaScript, Python, Java, Rust, Solidity, Swift, Dart, SQL, Bash
Backend: .NET Core, ASP.NET, Entity Framework, NestJS, Express, Django, FastAPI, Spring Boot, Axum
Frontend: Angular, React, NextJS, Vue.js, Redux, React Query, Tailwind CSS, Material-UI
Mobile: Flutter, React Native, Android (Java), iOS (Swift/UIKit)
Blockchain: Ethereum, Solidity, Web3.js, Hardhat, Foundry, ZkSync, Arbitrum, Aptos, Sui
Databases: PostgreSQL, MySQL, MSSQL, Redis, MongoDB, CouchDB
Cloud/DevOps: AWS, Docker, Kubernetes, CI/CD, Linux, Nginx, HAProxy, Git, GitHub Actions
Architecture: Microservices, REST API, GraphQL, gRPC, RabbitMQ, Kafka, Event-Driven Design
AI/ML: LangChain, Pydantic AI, pgvector, n8n, MCP Protocol, TensorFlow, PyTorch
Tools: Agile/Scrum, Jira, Confluence, Selenium, Puppeteer, Postman, VS Code, IntelliJ IDEA

Projects

Blockchain Web3 Application <i>NextJS, NestJS, MySQL, Solidity, Web3.js</i>	2023
<ul style="list-style-type: none">• Developed full-stack Web3 application for token transactions and market bot management• Implemented smart contracts on Ethereum, ZkSync, and Arbitrum networks• Built real-time market analysis features with automated trading capabilities	
Enterprise Workflow Management System <i>.NET Core, Angular, PostgreSQL, REST API</i>	2022
<ul style="list-style-type: none">• Supported enterprise workflow system processing 65,000+ workflows for multiple companies• Implemented REST API endpoints for workflow initialization and management• Organized version control system and implemented new features with bug fixes	
Chess Course Management System <i>C#, .NET Core, MSSQL, Entity Framework</i>	2021
<ul style="list-style-type: none">• Built comprehensive web application for student progress tracking and attendance management• Implemented chess puzzle homework submission and automated grading system• Designed database schema for efficient data retrieval and reporting	
BASE Programming Language <i>Python, Compiler Design</i> GitHub	2021
<ul style="list-style-type: none">• Designed and implemented custom programming language with Python interpreter• Developed lexer, parser, and interpreter components following compiler design principles	