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## SUMMARY

As a dedicated and skilled software engineer with a strong foundation in functional programming and a passion for innovative technology solutions, I am seeking a challenging role in a forward-thinking company. My goal is to contribute my expertise in software development and my proficiency in modern programming languages to drive project success and technological advancement. I am particularly interested in opportunities that allow for continued learning and growth in areas such as cloud computing, AI, or other emerging technologies.

I planned my place in the IT world in a very broad framework. Because it is very enjoyable for me to research and develop everything related to technology.

I have a strong background in designing, implementing, maintaining web application, mobile application, blockchain dapps, and services, deploying and administration of applications on the servers.

I developed .Net, Django, Flutter/Dart, Java, Swift UIKit, Angular, Typescript, Angular, Nextjs, AspNetBoilerplate projects for enterprise companies and set up their database Postgresql, back-end, MVC projects, and domains. I want to work with companies that take software development really seriously.

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## ACCEPTED ROLES

I definitely acknowledge my proficient skills based on the projects I have undertaken with various technologies. While my primary role is as a Software Engineer, I do not limit myself to this title. I have experience in the following roles:

- Tech Lead
- Software Architect
- Backend Developer
- Blockchain Developer
- AI Agents Developer
- Mobile Developer
- DevOps
- Full Stack Developer

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## PROFICIENT SKILLS

Although I have experience with a variety of programming languages, frameworks, and tools, I officially consider myself proficient in a technology when I have undertaken projects with it, such as:

- Dotnet, C#, Entity Framework Core, MsSQL, Aspnet Boilerplate
- NestJS, Microservices, Redis, MySQL, gRPC, RabbitMQ, Kafka
- Angular, Typescript
- NextJS

- Flutter
- React Native, Redux, React Query
- Remix-run
- Blockchain, Solidity, Javascript, Ethereum, ZkSync, Aptos, Move, Sui, Arbitrum, Solana
- Rust Axum, Leptos
- Python, Django, FastAPI
- Java, Spring Boot, Android
- Swift, UIKit
- Postgresql, MsSql, MySQL, Redis, CouchDB
- Git, Docker, Linux, Debian Linux, RedHat Enterprise Linux, Bash
- Amazon Web Services (AWS)
- Microservices, gRPC, RabbitMQ, Kafka, REST API, GraphQL
- AI Agents, n8n, LangChain, Pydantic AI, pgai, pgvector, MCP protocol
- Agile, Scrum, Jira, Confluence, Trello, Wekan
- Web Scrapping, Selenium, Puppeteer
- Nginx, HAProxy, Load Balancing, Cloudflare, S3 Storage, MinIO, Coolify, Meilisearch

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## MODERATE SKILLS

- Functional programming, Haskell, Scala, F#, Elm, Purescript, Gleam
- Google Cloud, Azure
- Data Analysis, Numpy, Pandas, Octave, SageMath, Anaconda Data Science Platform
- Machine Learning, TensorFlow, PyTorch, Scikit-learn
- MongoDB, Cassandra, Elasticsearch
- CI/CD, Kubernetes

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## EDUCATION

*Master of Science, **Computer Engineer***

Ege University 2024 - 2026

Concentration: Distributed Systems

*Bachelor of Science, **Computer Engineer***

Celal Bayar University 2020 - 2024

Concentration: Software Engineering

Grade: 3.32 / 4.00

*Bachelor of Science, **Computer Engineer***

Ahmet Yassawi University 2019 - 2022

Concentration: Computer Science

Grade: 3.81 / 4.00

*Bachelor degree, **Information Management Systems***  
Anadolu University 2018 - 2021  
Grade: 3.44 / 4.00

*Associate's degree, **Computer Programmer***  
Dokuz Eylul University 2016 - 2018  
Concentration: Computer Programming  
Grade: 3.40 / 4.00

*Associate's degree, **Mechatronics***  
Sakarya University 2020 - 2022  
Grade: 3.47 / 4.00

*Bachelor's degree, **Civil Engineer***  
Celal Bayar University 1999 - 2003

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## COMPUTER SKILLS

*Languages & Tools:*

### Web Development

- **C#**, .NET Core, Abp Framework, MVC design, Entity Framework, Windows Forms, F#
- **Typescript**#, Nextjs, Reactjs, Angular, Nestjs, Express
- **Python**, Django, DjangoRestFramework, FastAPI, Flask, Shell scripting
- **Java**, Spring Framework, Spring Boot, JavaFX Desktop Programming, Android Programming
- **Rust**, Axum, Leptos

### Mobile Development

- **Android & IOS Development**, Flutter, React Native, Android Java Programming
- **Swift** IOS UIKit

### Blockchain Development

- Solidity, Hardhat, Foundry, Web3, Solana, Ethereum, ZkSync, Aptos, Move, Sui, Arbitrum
- Market Bot Management

### DevOps & Server Management

- **Linux**, Server Management, Bash scripting, System Administration, Debian, Ubuntu, Fedora, Red Hat Enterprise Linux, Arch Linux, Clonezilla, Vim, Gnu/Emacs
- **Git** Version Control Systems, Github, Gitlab
- **Docker Containerization**, Virtualization, Virtualbox, Vmware

- **Nginx**, HAProxy, Load Balancing, Cloudflare, S3 Storage, Minio, Coolify, Meilisearch
- **Nix** reproducible developer environments
- **Postgresql**, Psql, Pgadmin4, Postgrest
- **MSSQL**, Sql Management System

## Cloud Computing

- **Cloud Computing**, Aws, Google Cloud, Digital Ocean, Azure, Hetzner, Cloudflare
- **Development Tools**, Apache Http Server, Nginx, Traefik

## Others

- **Functional Programming**, Scala, Haskell, F# functional programming design and concepts
- **Data Analysis**, Numpy, Pandas, Octave, SageMath, Anaconda Data Science Platform
- **Agile Development**, Scrum, Agile Testing, Unit Testing, NUnit, Redmine, Jira, Confluence, Trello, Wekan
- **Graphics Design, Media Applications**, Inkscape, Gimp, Diagrams.net, Dia, Obs Studio, HandBrake, Kdenlive, Audacity, Wordpress

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## EXPERIENCE

*Software Engineer*

2017 - Present

- **Blockchain Analysis, Education, News, Blogs Application:** Developed web and mobile app with microservice backend as a Team Lead. (jrkripto.com)
  - NextJS frontend, React Native Mobile with Typescript
  - NestJS microservices backend with gRPC
- **B2B e-commerce:** Developed an enterprise Angular frontend / Abp Dotnet Backend B2B app. (Altinyildiz Classics & Beymen Business)
  - **Angular:** Designed and developed enterprise Angular frontend.
  - **Abp Dotnet:** Backend with Abp Dotnet 6.0.
  - **Integration** Integrated with B2C app of the company. Product sync with B2C app, cronjobs, etc.
- **Swift IOS:** Supported enterprise level Ipad app with Swift for new development features. (Organic clothing company)
  - Custom keyboard implementation for ordering product variants.
  - new features of the company requirements.
- **Flutter Mobile App:** Developed an enterprise Flutter mobile app for customer-welder portal. App launched on PlayStore and AppleStore.(MagmaWeld / Zaimoglu Holdings)
  - Dotnet 5.0 backend implementation and deployment to a Windows server
  - Flutter IOS and Android implementation and deploy to PlayStore and AppleStore

- **NFC Payment Mobile App:** Developed an enterprise Java mobile app for payment with NFC and bank gateway backend.(Altinyildiz Classics & Beymen Business)
- **Enterprise Workflow Web Application:** Support an enterprise company workflow project for new developments and support. In this application 65.000 flow executed for various companies. (Yaşar Holdings / dijital.asistan software)
  - Added REST API to the system for starting and managing workflows.
  - Organize the whole version system with git.
  - Implemented new features and bugfixes.
- **Blockchain Web Application:** web3 application.
  - Nextjs frontend, Nestjs & Mysql backend.
  - Token transactions and Bot management of the Blockchain markets.
- **NestJS Backend Boilerplate :** Developed a NestJS backend boilerplate with Authentication, Authorization, Redis Cache, Bull Queue system, JWT, Cron Jobs, etc.
- **BergX Software 2023-2024:** worked as a Tech Lead.
- **Gunkom Software 2021-2023:** worked as a Software Engineer. Developed various frontend and backend projects at enterprise level.
  - Upgraded company core boilerplate framework to .NET Core 6.0
  - Added Automation with python to core boilerplate development environment.
- **Web Scrapping Data Analysis Web Application:** Developed a web application for representation with data analysis of on-sale devices that are web scrapped from various e-commerce websites.
- **Chess Course Management System:** Developed a web application to a chess club for student progress tracking, attendance, chess puzzle homework submission and grading software with C#, .Net Core web framework and MSSql database.
- **Web Applications:** Developed various small scaled web applications.
- **University Projects:** I explained many of the projects I carried out in detail in the Projects section.

#### *Instructor*

2017 - Present

Betul Cemre YILDIZ Chess and Robotic Organization

- Teaching Csharp programming courses to high school students.
- Performing Linux Administration courses to high school students.
- Giving Drone certificate courses.

#### *Company Manager*

2005 - 2015

Adacelik Engineering LLC

- We have done construction works in the public and private sector with my chief engineer duty.
- We produced furniture with 20 employees in the company I own.

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## University Projects

*Celal Bayar University*

2020 - 2022

- **Artificial Intelligence Project:** N-Queens problem solved with artificial intelligence algorithms and python programming language.
- **Tcp/Ip Network Programming Project:** Developed Battleship like multi-player game with C#, Windows Forms. Two clients can play and communicate each other in the same network. <https://github.com/emre-yildiz-dev/CinsFlagsGame>
- **Twitter Clone Project:** Developed a basic twitter clone with .NET Core, C#, EntityFramework Core and Postgresql
- **ZeroToHundred Console Game:** Developed a Java console game that two sphere racing on a platform of numbers 1 to 100 in a Linux terminal emulator. <https://github.com/emre-yildiz-dev/zerotohundred>
- **BASE Programming Language Design Project:** Developed a single programming language with python interpreter. <https://github.com/emre-yildiz-dev/BASE>
- **E-commerce Back-end Programming Project:** Backend system with Java, Spring Boot REST Framework and Postgresql database.

*Akhmet Yassawi University*

2019 - 2022

- **Fitness Center Web Application Project:** Developed Fitness gym promotion and membership purchase web application with Django framework, python, Sqlite database. <https://github.com/emre-yildiz-dev/Django-Fitness>
- **Scientific Calculator Mobile Application Project:** Developed a mobile application that has scientific calculation properties with IntelliJ idea, Java, Android Sdk.
- **Course Management System:** Developed .Net Core 6.0 web application with MSSql database.

*Dokuz Eylul University*

2017 - 2019

- **C lang Console Program:** Developed a console program to save newly learned words for a foreign language. Then retrieve them from a file randomly to memorize activities. <https://github.com/emre-yildiz-dev/ForeignWordMemorization>

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## EXTRA-CURRICULAR ACTIVITIES

**FIDE Chess Trainer (FT)** fourth level expert trainer and tournament player  
**FMJD International Draughts Player**  
**Special Interest to Board Games** Checkers, Go, Xiangqi

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## CONTACT

**Email:** [emre.yildiz.dev@hotmail.com](mailto:emre.yildiz.dev@hotmail.com)  
**Tel:** +90 532 563 0256  
**Linkedin:** <https://linkedin.com/in/emre-yildiz-297ab0242>  
**Github:** <https://github.com/emre-yildiz-dev>  
**Location:** Izmir/Turkey