Doğukan Aydın
Computer Engineer

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SUMMARY

Computer Engineer with 3 years of backend development experience, specializing in Node.js, Express.js, and PostgreSQL. Proven track record in designing RESTful APIs, database architecture, and cloud deployment with AWS and Docker. Strong foundation in Full-Stack Development, combined with academic expertise in Machine Learning, Deep Learning, and Artificial Intelligence. Passionate about building scalable technological solutions.

EDUCATION

Bachelor's Degree in Computer Engineering   Sep 2020 – Jun 2025
Üsküdar University, İstanbul – Faculty of Engineering and Natural Sciences

EXPERIENCE

Full-Stack Developer   Jan 2024 – Dec 2025
Kariyer Zamanı, İstanbul

Kariyer Zamanı Platform (Oct 2024 – Dec 2025): Developed job search platform with Node.js/Express.js, Elasticsearch, Redis caching, and PostgreSQL. CI/CD with GitHub Actions, Docker/Nginx deployment.

E-HR Employee Management System (Jan 2024 – Oct 2024): Built backend API for employee management including invoice, work tracking, leave management, and scheduling features.

Freelance Full-Stack Developer   Jun 2025 – Present
Remote
Developing ERP System with microservice architecture (Auth, Product, Stock services) using Java Spring Boot, Hibernate, and JPA. Building frontend interfaces with Vue.js.

Freelance Full-Stack Developer   Jan 2023 – Dec 2023
Remote
Provided freelance development for E-HR application. Built backend architecture with Node.js/Express.js, designed PostgreSQL database schema, and implemented JWT authentication.

Software Development Internship   Jul 2023 – Sep 2023
Antsoft IT Services, İstanbul – Full-Stack Development internship with hands-on web technologies experience.

Hardware Engineering Internship   Jun 2023 – Jul 2023
Antsoft IT Services, İstanbul – Hardware systems, network infrastructure, and technical support.

SKILLS

Backend: Node.js, Express.js, REST API, JWT, Socket.io, Java Spring Boot, Hibernate, JPA, Microservices, C# ASP.NET

Frontend: JavaScript, TypeScript, React, Vue.js

Databases: PostgreSQL, MySQL, MSSQL, Sequelize, Prisma, Elasticsearch, Redis

DevOps: Docker, AWS, Linux/Unix, CI/CD (GitHub Actions), Nginx, PM2

AI/ML: TensorFlow, Keras, Scikit-learn, OpenCV, Python, NumPy, Pandas

Other: Git/GitHub, Postman, Agile/Scrum, Jira

CERTIFICATES

Introduction to AI (IBM) – Coursera
Java – TÜBİTAK-BİLGEM
Microservice Architectures – TÜBİTAK-BİLGEM
Spring – TÜBİTAK-BİLGEM
User Experience & Usability – TÜBİTAK-BİLGEM
JavaScript Basics – BitDegree

LANGUAGES

Turkish: Native   **English:** Advanced   **German:** Intermediate

PROJECTS

ERP System – Enterprise Resource Planning   Jun 2025 – Present

Enterprise resource planning system with microservice architecture (Auth, Product, Stock services). Built with Java Spring Boot, Hibernate, and JPA for backend services. Frontend developed with Vue.js. Implementing business logic for inventory and resource management.

Kariyer Zamanı – Job Search Platform   Oct 2024 – Dec 2025

Live: kariyerzamani.com

Full-stack job platform built with Node.js, Express.js, and React. Implemented Elasticsearch for advanced job search, Redis for caching, and PostgreSQL database. RESTful API secured with JWT and API key authentication. CI/CD pipeline with GitHub Actions, Docker deployment with Nginx. Agile/Scrum workflow managed via Jira.

E-HR – Part-Time Employee Management System   2023 – 2024

Live: Available on App Store

Backend API developed with Node.js and Express.js, featuring PostgreSQL database. RESTful API architecture with JWT and API key authentication. CI/CD pipeline via GitHub Actions, Agile/Scrum project management with Jira. Features include invoice management, work tracking, and employee scheduling.

Improving Outlier Detection Methods (OCSVM + CNN)   2024

Research project combining One-Class SVM with CNN using Python, Scikit-learn, TensorFlow, and Keras. Tested on multiple datasets including MNIST and Breast Cancer from sklearn. Utilized OpenCV for image preprocessing and demonstrated improved detection accuracy over traditional methods.

Weather Prediction with AI   2024

Weather forecasting system using Python with multiple ML algorithms including LSTM, Random Forest, and Linear Regression. Integrated WeatherAPI for real-time data collection and built predictive models for temperature forecasting and weather pattern analysis.

Butterfly Image Classification with ANN   2023

Deep learning image classifier built with TensorFlow and Keras using CNN architecture with Conv2D and Max-Pooling layers. Implemented data augmentation techniques to improve model generalization. Utilized NumPy and Pandas for data processing.

Laser-Targeting Arduino Robot   2023

Autonomous robot built with Arduino microcontroller and servo motors for precise laser targeting system. Developed C# desktop application for control interface with serial communication.

Holiday Booking Website & Admin Panel   2022

Travel booking platform developed with ASP.NET MVC framework and Entity Framework ORM. Implemented MS SQL Server database for reservation management. Created customer-facing booking interface and administrative panel.

REFERENCES

Vlado Misajlovski

Minister of Defence, North Macedonia

Recommendation Letter for Civil Liaison Officer of Macedonian Delegation