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Education

Bachelor's Degree in Industrial Engineering, Marmara University, Istanbul, Türkiye ***2018 - 2024***

- Developed a machine learning model for Turna.com to predict passenger ticket cancellation behavior as part of the graduation project. (See [article](#))
- Achieved 2nd place in 2020 and 1st place in 2021 in university-level competitions organized by the Industrial Engineering Society (EMT).
- Represented Marmara University in the EMT 2021 VAY Turkey Finals.
- Secured 2nd place among approximately 100 teams in the 2022 English Home Case Study Competition. See certifications: [1](#), [2](#), [3](#), [4](#))
- **Fields of Interest:** Cloud Engineering, Cloud Services, Public, Cloud, Software Development

Skills

- **Software Development :** Python, FastAPI, Flask, HTML, CSS, JavaScript, Vue.js, TailwindCSS, SQL, numpy, pandas, TypeScript.
- **Cloud & DevOps:** Linux, Bash Scripting, Microsoft, VM.
AWS: Lambda, CloudWatch, DynamoDB(NoSQL), S3, ECS, Fargate, EC2, IAM, API Gateway,
HWC: VPC, VPN, NAT Gateway, DNS, EVS, OBS, FunctionGraph, RDS, DDS Mongo, ECS, DRS and DCS Migration, Terraform, TypeScript, CDKTF, Iaas as a Code
Firebase: Firestore, Authentication, Hosting, Storage, MSSQL, Docker, git, Github Actions, GitLab CI/CD
- **Tools:** VS Code, Postman, Git, Jupyter Notebook, AutoCAD, SAP, Arena, R, AWS, Huawei Cloud, Azure.
- **Soft Skills:** Professional proficiency in English, technical writing, problem-solving, fast learning, teamwork, business presentation.

Professional Experience

Cloud Solutions Architect, Huawei, Istanbul R&D Office

March 2025 – present

- Working with middleware services on Huawei Cloud and AWS, including APIG, DCS Redis, Kafka, MongoDB, MySQL, RabbitMQ, and RocketMQ.
- Delivering technical support to customers and executing middleware service migrations from AWS to Huawei Cloud.
- Terraform and CDKTF (TypeScript) feature development for Infrastructure as Code (IaC).

Software Engineer, Innoppia, Rotterdam/Netherlands, Remote

July 2023 – March 2024

- Developed a [Predictive Maintenance Driven Task Planning System](#) for the EU-funded [AIPlan4EU](#) project. Led the development process, including design, coding, testing, containerization and deployment.
- Integrated the model into the FabMetrics IIoT platform, resulting in:
- A 66% reduction in Machine Downtime. Maintenance Planning Time reduced from 3-4 hours to 10-15 minutes, significantly improving operational efficiency.
- Managed project stages, including sprint reports, planning, software architecture design, technical writing, research, and technical meetings.

Software Engineer Intern, Innoppia, Rotterdam/Netherlands, Remote

April 2023 – July 2023

- Contributed to backend development for the FabMetrics IIoT platform.
- Developed RESTful APIs using AWS Lambda, DynamoDB, and API Gateway.

- Performed debugging and optimization tasks to enhance system performance.
- Worked on cloud-based solutions utilizing AWS services (S3, EC2, IAM).

Production Intern, VARAKA, Balıkesir/Türkiye

February 2023 – March 2023

- Gained experience in pulp preparation, production lines, and quality control departments in the recycled paper production process.
- Improved process optimization and efficiency analysis skills.

Freelance Fullstack Software Developer, Sole Proprietorship

March 2024 – 2025

- Developed a fully web-based appointment scheduling platform for a law firm, handling both frontend and backend development independently within six months.
- Designed a web application allowing clients to book appointments with lawyers via video, phone, or in-office meetings.
- Integrated Google Meet APIs for video calls and Iyzico for secure payment processing.
- Developed an admin panel for appointment, client details, payments, and notification management.
- ([See live website](#)) ([See Admin Panel](#))

IT Assistant, English Home, İstanbul/Türkiye

April 2022 – November 2022

- Developed internal business solutions using Python.
- Automated repetitive tasks and created data analysis reports.
- Participated in ABAP debugging and SAP operations for IT technical support.

Other Experiences

Lifeguard / Pool Operator High Sierra Pools, Maryland/USA

June 2019 – September 2019

- Worked as a lifeguard for four months in Maryland, USA, as part of the Work and Travel cultural exchange program.
- Improved English language skills and gained experience in an international work environment.

Member AIESEC, İstanbul/Türkiye

February 2022 – June 2022

- Volunteered in the Outgoing Global Volunteer department for six months.
- Assisted Turkish youth in finding internship opportunities abroad

Erasmus+

- Participated in various Erasmus+ youth exchange and training projects in Europe during university.
- Currently working on writing EU projects with my newly founded youth organization.

Side Projects

Handwritten Digit Classification Using Convolutional Neural Networks

- Trained a CNN using the MNIST dataset to recognize and classify handwritten digits.
- Developed a desktop GUI using Tkinter, allowing users to draw digits and test the model's predictions.
- [GitHub Repository](#)

Genetic Algorithm-Based Game AI

- Developed an AI for a simple game using a genetic algorithm (NEAT).
- Optimized the agent's performance through evolutionary processes, improving decision-making abilities over time.
- [Github Repository](#)

Additional

- YÖKDİL March 2021 Score: 95/100: [View YÖKDİL Result](#)