

MUHAMMED SINA GÜN

Computer Engineer | Backend & Software Developer | AI & Automation Specialist

muhammedsina47@outlook.com · +90 543 724 59 85 · Istanbul, Türkiye (Open to Relocation)

linkedin.com/in/muhammedsina · github.com/msgxr · msgxr.github.io

PROFESSIONAL SUMMARY

Results-driven Computer Engineering student at İstanbul Arel University with hands-on experience in full-stack software development, financial data automation, and AI-assisted tooling. Engineered data-driven web platforms and automation pipelines leveraging Java, Python, and React, with a focus on performance, scalability, and clean system architecture. Passionate about embedded systems, cybersecurity, and applying machine learning principles to real-world engineering challenges. Seeking Software Engineer / Backend Developer roles in high-growth international environments.

CORE COMPETENCIES

- Data Structures & Algorithms
- OOP Design
- RESTful API Design
- System Architecture
- Automation Engineering
- Financial Data Pipelines
- Web Application Development
- Database Design
- Git / Version Control
- Cybersecurity Fundamentals
- Agile Development
- SOLID Principles

TECHNICAL SKILLS

Programming	Python, Java, C, C++, C#, JavaScript
Frontend	React, HTML5, CSS3, SASS
Backend	Node.js, Express.js, Streamlit
Databases	PostgreSQL, MySQL
Tools & OS	Git, GitHub, Linux, VS Code, IntelliJ IDEA
Domains	BIST Financial APIs, Excel Automation, OOP Design Patterns, Data Visualization

TECHNICAL PROJECTS

BIST100 Financial Reporter

Python · PostgreSQL · Financial APIs | github.com/msgxr

Engineered an automated market data pipeline integrating Borsa İstanbul (BIST100), **reducing manual reporting time by ~70%** through real-time data fetching and structured database storage. Designed a scalable schema handling thousands of daily records with optimized query performance.

ExcelDataManager — Excel-to-Web Automation

Python · Web Technologies | github.com/msgxr

Developed an end-to-end automation solution migrating corporate Excel workflows to a live web interface, **eliminating manual data entry and reducing operational overhead by ~60%**. Implemented validation and transformation logic ensuring cross-dataset integrity.

Inventory Management System

Java · OOP · MySQL | github.com/msgxr

Architected a full-featured corporate inventory tracker applying **SOLID design principles** and multi-layered OOP architecture with role-based access control and real-time inventory state management.

Car Rental Platform (Oto Kira Sistemi)

Java · MySQL | github.com/msgxr

Designed a full-stack rental management platform covering vehicle tracking, customer management, and transaction history using a clean **MVC architecture**.

EDUCATION

İstanbul Arel Üniversitesi – İstanbul, Türkiye

Aug 2024 – Sep 2028 (Expected)

B.Sc. Computer Engineering | GPA: 3.16 / 4.00

Completed Coursework: Data Structures & Algorithms (BB) · Object-Oriented Programming (BB) · Algorithms & Programming I-II (DD / CC) · Discrete Mathematics (BA) · Linear Algebra (AA) · Probability & Statistics (CB) · Differential Equations (**AA · 100/100**) · Electronics-I (AA) · Physics I-II (BA / AA) · Computer Engineering Fundamentals (BA) · Mathematics I-II (AA / AA) · Strategic Planning & Project Management (BA)

CERTIFICATIONS

Cyber Security Essentials

Cisco · 2024

Cyber Security Threat Landscape

Cisco · 2024

Programming Concepts for Python

2023

LEADERSHIP & COMMUNITY

ArelTech — Arel University Software Club

2022 – Present

Core Member & Technical Lead

- Led technical workshops on Big-O complexity, Computer Architecture, and Cybersecurity for **30+ student members**.

- Produced educational content on software engineering fundamentals, growing club engagement across digital platforms.
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LANGUAGES

Turkish — Native **English** — Professional Working Proficiency