

ULUS HASTÜRK

Senior Software Specialist | Full-Stack Developer

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PROFESSIONAL SUMMARY

Software specialist developing web products and business-critical applications since 2012, with experience spanning full-stack engineering, industrial operations, and data-driven systems. Work includes React interfaces, Java/Spring Boot services, relational databases, and enterprise integrations. Holds a master's degree in Business Intelligence & Data Analytics; combines hands-on engineering delivery with applied machine learning and analytical work.

PROFESSIONAL EXPERIENCE

Software Specialist · Full-Stack Developer | Tatmetal Steel | Feb 2024 - Present

- Build React interfaces and Java/Spring Boot services for production-facing MES and supply-chain workflows within a software engineering team.
- Develop PostgreSQL data operations, service integrations, and business logic for manufacturing and logistics processes.

Full-Stack Developer | Genius Analytics | 2022 - Dec 2024

- Contributed remotely to web application development, from interface implementation to backend functionality and delivery.

IT Manager | Özel Yalçınkaya Tıp Merkezi | Mar 2017 - Dec 2023

- Managed day-to-day IT operations, database and data-record responsibilities, websites, infrastructure, and technical support in a healthcare setting.

Web Developer | Independent / Freelance | 2012 - 2022

- Designed and built client websites, content platforms, and e-commerce applications, covering frontend development, PHP-based features, and ongoing maintenance.

SELECTED PROJECTS & APPLIED WORK

AI-Powered Predictive Maintenance Platform | Independent Graduate Capstone | 2026

- Architected and delivered the complete application independently: React UI, PHP/MySQL REST API, Python/FastAPI inference service, and an XGBoost failure-risk classifier.
- Connected synthetic industrial sensor streams to machine-risk dashboards, critical alerts, automatic work-order creation, and maintenance workflows across six simulated machines.
- Compared classification approaches and evaluated model performance on 30,000 synthetic observations; designed a replaceable ingestion layer for future SCADA/Modbus integration. Live demo: tez.ulushasturk.com.

Industrial Manufacturing & Supply-Chain Systems | Team Engineering

- Contributed to production MES and logistics software spanning operational interfaces, business services, data flows, and enterprise integration; examples and descriptions remain generalized to protect confidential systems.

Applied Data Analytics & Machine Learning | Graduate Studies

- Analyzed factors associated with stress using Canadian health-survey data (Python, pandas, SciPy, visualization); examined smartphone-use and education relationships with R/RStudio.
- Completed property-price estimation and applied regression/classification studies; documented analysis, visualizations, and results in reproducible notebooks and reports.

Selected Web & E-Commerce Products | Independent Development

- Built bespoke client-facing platforms, including an end-to-end e-commerce system with administration, payment, invoicing, SMS, and shipping integrations.

EDUCATION

Master's Degree, Business Intelligence & Data Analytics | İzmir Bakırçay University | 2024-2026

Bachelor's Degree, Chemistry | Hacettepe University | 2008-2015

TECHNICAL SKILLS

Frontend: React, JavaScript, TypeScript, HTML, CSS, Vite, Tailwind CSS | Backend: Java, Spring Boot, PHP, Python, FastAPI | Databases: PostgreSQL, MySQL | Data / ML: pandas, R, XGBoost, regression, classification, visualization | Tools: REST APIs, Git, Linux, Docker