MUHAMMET FATİH ÇETİNTAŞ

Software & AI Solutions Specialist

Software Development | Applied AI | Data Analytics | Systems Integration
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PROFESSIONAL PROFILE

Hands-on experience in Python and C#/.NET software development, data analytics, machine learning and enterprise application integration. In independent research and development, I have structured clinical datasets, worked on sleep-apnea risk analysis and developed EEG-based alternative communication prototypes using data processing and machine learning. My enterprise experience covers production logistics workflows and API integration, as well as the sustainable operation of hospital information systems. My strengths include translating requirements into technical solutions, data preparation, validation and coordination across teams.

PROFESSIONAL EXPERIENCE

Autonomous Systems and Software Applications Specialist

Optimak STU / Logirobotic | Software and Applications, Sakarya / customer sites | 04/2026 - Present

- Analyze business processes in production and warehouse logistics applications; contribute to translating operator actions, task lifecycles, system states and business rules into technical requirements and test scenarios.
- Evaluate task management, configuration and REST/JSON system communication in SEER RDS/RoboShop Pro and HIKROBOT RCS-Lite; contribute to validating integration flows with manufacturing execution systems (MES) and field-control components.
- Work on task/feedback consistency, timeouts, failure scenarios and end-to-end testing across operator applications, API data flows and automation components.
- Support application fault analysis, technical documentation, user training and acceptance checks at enterprise customer sites; coordinate technical work between software, automation and operations teams.

IT Specialist

Private Medar Hospital | Sakarya | 06/2025 - 11/2025

- Managed user access, technical support and business-continuity processes for enterprise applications including Medisoft HIS and Sonitel PACS in a hospital with more than 140 client devices.
- Contributed to troubleshooting access, authorization, client and service issues across Windows Server 2022, Active Directory, Hyper-V (four virtual machines), SQL Server, FortiGate/FortiClient VPN and core network services.
- Analyzed integration issues involving laboratory RS-232/COM connections, barcode systems and printers; developed Python helper tools for repetitive tasks.

Independent Software and AI Developer

Freelance | Sakarya / Remote | 10/2024 - 06/2025

- Extracted and cleaned data from approximately 400 Tanita reports for sleep-apnea research associated with Sakarya University Faculty of Medicine; contributed to a structured analysis dataset covering 395 patients.
- Linked anthropometric measurements, clinical variables, AHI/OSAS classes and questionnaire results using Python/pandas; worked on classification, variable analysis and model evaluation with scikit-learn and statistical methods.
- Worked on signal processing, feature extraction and development and evaluation of machine-learning prototypes for EEG-based yes/no intent classification in research on alternative communication for people living with ALS.
- Developed Python and C# tools for data transformation, PDF/Excel processing, automation and AI-assisted applications, using Git/GitHub, testing, debugging and technical documentation.

Search Engine Quality Evaluation Specialist (Freelance)

Gini Talent | Remote | 11/2024 - 03/2025

- Evaluated search results against guidelines for user intent, relevance and content quality; contributed to data annotation, quality control and consistency review.

Software Intern

MKU Teknoloji (RAITOY) | Sakarya Teknokent | 07/2024 - 11/2024

- Provided technical support for Python-based development, data preparation, application testing and error analysis in AI, web and mobile software work.

TECHNICAL SKILLS

Software development and integration: Python, C#/.NET, FastAPI, REST APIs, WebSocket, JSON, Git/GitHub, Docker, Swift/SwiftUI, React/TypeScript.

Data analytics and AI: pandas, NumPy, scikit-learn, PyTorch, OpenCV, TensorFlow Lite; data cleaning, feature engineering, classification, model evaluation, NLP and statistical analysis.

Databases and data processing: SQL, PostgreSQL, SQL Server, MySQL, SQLite, SQLAlchemy, Excel, openpyxl, PDF extraction and reporting.

Enterprise applications and processes: API integration, data-flow and business-rule analysis, MES, test scenarios, user acceptance testing, technical documentation and stakeholder coordination.

Systems and infrastructure: Windows Server 2022, Active Directory, Hyper-V, FortiGate/FortiClient, DNS/DHCP, HIS/PACS, SEER RDS, HIKROBOT RCS-Lite.

EDUCATION

Ahmet Yesevi University - Management Information Systems
Bachelor's degree, distance learning | 2026 - Present

Anadolu University - Economics
Bachelor's degree, open education (third year) | 2026 - Present

Bartın University - Computer Programming
Associate degree, graduated | 2022 - 2024 | GPA: 2.78/4.00

Arifiye SATSO Vocational and Technical Anatolian High School
Motor Vehicle Technology | Graduated: 2022

CERTIFICATIONS AND PROFESSIONAL TRAINING

- BTK Akademi - Applied Machine Learning and Deep Learning Workshop (2025)
- BTK Akademi - Python Programming Language (2025)
- BTK Akademi - DoS / DDoS Attacks and Protection Methods
- T3 Foundation - Introduction to Rocket Systems (2026)

LANGUAGES

Turkish: Native | **English:** Intermediate, focused on reading and writing technical documentation.