Mustafa Tetik

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ABOUT

Computer Engineering student with hands-on experience in **Backend Development**, particularly using **Java, Spring Boot, and Docker**. Completed a backend internship and developed scalable, structured **APIs** following **MVC architecture**. Actively exploring **Data Science, Deep Learning, and Cybersecurity** through projects to deepen knowledge and build practical skills. Authored a deep learning **research paper** on detecting suicidal intent in social media posts and conducted a **ransomware simulation** project to analyze malware behavior and defense strategies in isolated environments. Quick to learn new technologies, adaptable in dynamic environments, and always eager to collaborate and contribute to team success.

EXPERIENCE

Software Engineering Intern   July 2024 – September 2024
Smartera Software Solutions, Istanbul
- Gained hands-on experience in backend software development using **Java and Spring Boot**.
- Applied **Test-Driven Development (TDD)** principles to write test-driven, maintainable, and reliable code.
- Focused on building scalable and efficient backend services while following best practices in software development.

IT Intern   July 2025 – September 2025
Brisa Bridgestone Sabancı, Izmit
- Gaining experience in software lifecycle within the IT department of a corporate environment.
- Utilizing platforms like **Jira** and **Bugzilla** for issue tracking, project management, and task coordination.
- Conducting analysis on **REST** and **SOAP** web services to understand service behavior and integration patterns.
- Using tools like **Postman** and **SoapUI** to inspect and test API requests and responses.
- Contributing to documentation and test activities related to service-based architectures.

PROJECTS

Research Paper: Analysis of Suicide Content in Social Media Posts with Deep Learning Models and Comparison of Models
- Authored a **research paper** on detecting suicidal intent in social media posts using deep learning models.
- Implemented and compared two unused models in literature, achieving **97% accuracy** in both models.
- Conducted **data preprocessing, feature extraction,** and **model evaluation** to improve classification performance.

Ransomware Simulation & Analysis
- Configured **Windows 10** and **REMnux VMs** on a host-only network for total isolation.
- Deployed **INetSim** to safely emulate internet services, enabling observation of malware's outbound communication attempts.
- Monitored system and network activity using **Wireshark, tcpdump, Procmon, Process Explorer, and Regshot** to capture behavioral indicators.
- Analyzed file encryption processes, registry modifications, and lateral movement techniques commonly used by **WannaCry**.

TECHNICAL SKILLS

Backend Development: Java, Spring Boot
Backend Architecture & API Design: RESTful API, JWT (JSON Web Tokens), MVC
AI & Deep Learning: Python (Pandas, NumPy, TensorFlow), model evaluation, data preprocessing
Cybersecurity Tools: REMnux, Wireshark, tcpdump
Developer Tools: Git, GitHub, VS Code, IntelliJ IDEA, Docker, Postman, SoapUI
Other Programming Tools: Python, JavaScript, SQL (MySQL), C

EDUCATION

Marmara University   Istanbul, Turkiye
Computer Engineering — 3.12   *2022 – Present*

LANGUAGES   AFFILIATIONS

Turkish: Native   Sabancı Foundation Scholar
English: B2 (YÖKDİL: 71/100)