Mehmet Ustek
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SUMMARY

Cybersecurity Engineer adept at securing digital assets and crafting user-friendly applications. Skilled in vulnerability identification, robust security implementation, and innovative problem-solving. Proficient in frontend and backend technologies, committed to staying updated on cybersecurity trends. Known for analytical thinking and efficient project goal achievement.

EXPERIENCE

Software Developer, Yapi Kredi Banking — Jan 2023 - August 2023

- Led frontend development as a full stack developer for the Bulk Money Transfer project at Yapi Kredi Bank Netherlands.
- Technologies: React with TypeScript, Redux SM, Java Spring Framework, Microservices, Agile Development, PLSQL, SDLC.
- Developed a secure application enabling international money transfers between clients and the bank in the Netherlands.
- Implemented input validations and null-safe frontends to enhance the security of web applications.
- Strengthened the security layer and optimized backend services for improved performance.

Software Developer, Huudle Technology — June 2022 - January 2023

- Developed null-safe frontends for mobile applications using React Native with TypeScript, while enhancing security between MySQL storage and Go backend service as a full stack developer.
- Ensured security and optimization of backend services for enhanced performance.

Backend Developer, Omnio Games — March 2022 - June 2022

- Developed and secured a backend service for a mobile game, optimizing performance and ensuring comprehensive testing of edge cases for backend security.
- Established effective communication between MongoDB storage and Java Spring backend service to enhance system functionality and data management.

Research Assistant, Koç University — January 2022 - June 2022

- Conducted research on Sweden, Finland, and Turkey's position on three main subjects under the title of sustainable development: Affordable and Clean Energy Development, Decent Work and Economic Growth, and Reduced Inequalities.

Software Engineering Intern, PwC, Turkey — April 2021 - August 2021

- Implemented backend services for the "Internal Firm Services" team, catering to various departments, particularly the finance team. Technologies: C# and Microsoft SQL.

EDUCATION

MSc Cyber Security, University of Bristol — *2023 - 2024*

- Specialising in Network, IoT/IIoT, ICS Security. In-depth knowledge of network protocols, technologies, and architectures (e.g., TCP/IP, DNS, VLANs, VPNs). Applied experience of vulnerabilities and protections of Industrial Control Systems tools such as SCADA, HMI, PLCs, with protocols such as Ethernet/IP, Modbus, Step 7.
- Demonstrated strong comprehension of OSINT, vulnerability assessment, penetration testing, monitoring, effective mitigation strategies, as well as network and system security concepts.

BSc Computer Science, Koç University — *2017 - 2022*

- Grade: 2:1
- Mastering Certificate in Cryptography and Artificial Intelligence.
- Minor in Business Administration – GPA: 3.83 / 4.0 (First Class Honours)

KEY SKILLS

Secure Coding Practices, Agile & Scrum Methodologies, ISO/IEC 27001, GDPR, NIST SP800-30/39, OWASP Top 10.
Programming Skills: Python, TypeScript/JavaScript (React.js, Node.js, Redux.js), Java, Go, C#, C/C++, SQL.
Tools/Frameworks: Burp Suite, Docker, Metasploit, Wireshark, Flutter, React Native, Python Flask, Java Spring Boot, CI/CD.

LANGUAGES

Turkish (Native), English (Full Professional Proficiency - IELTS Academic 8.0/9.0)

CERTIFICATES & AWARDS

- TryHackme Jr. Penetration Tester Certificate *Dec 2023*
- OWASP Top 10 & Secure Programmer Certificates *Apr 2023*
- Dean of Students Special Award *June 2022*
  - Awarded to recognize outstanding contributions to university and campus life.
- Vehbi Koc Scholar Award *June 2020*

VOLUNTEERING

Course Representative for MSc Cyber Security, University of Bristol *Nov 2023 – Sep 2024*

- Working in partnership with the university staff to make the learning experience more enriching and impactful for all students.

Chairperson, Koç University Marketing Club *May 2020 – June 2021*

- Actively contributed to club-related activities from 2017 to 2021 as a loyal member.
- Managed a team of 350 individuals, fostering collaboration across various academic levels, and aligning efforts towards a shared goal.
- Oversaw the club's sustainable financial stability and maintained communication with the dean of students, ensuring that all profits generated within the club supported the university foundation.

PROJECTS

Security vulnerability detection and likelihood prediction in IaC descriptive models *Dec 2023 – Present*

- Ongoing **MSc Thesis Project.** Detection of vulnerabilities in Infrastructure as Code configuration files, such as Docker Compose or Dockerfile, using Machine Learning and Natural Language Processing.
- Converting configuration files to their respective Abstract Syntax Tree representations and applying a machine learning model to detect and alert vulnerabilities. Used Python for ML, TypeScript for AST sensitivity labelling.

Docker Swarm with Domain Driven Design *November 2023*

- Implemented Domain Driven Design principles, containerizing the entire JavaScript code in microservices and forming a Docker Swarm with Canonical Multipass. Project Link: https://github.com/MehmetUstek/MaxLive

Time-Based One-Time Password (TOTP) Generator *October 2023*

- Developed a Time-based One-Time Password (TOTP) console application in C, leveraging OpenSSL libraries.
- Project Link: https://github.com/MehmetUstek/TOTP-with-OpenSSL-C

Instagram Threads Frontend Clone Application with Flutter *August 2023*

- I enhanced my frontend development skills by creating a Flutter-based clone of Instagram Threads, incorporating effective state management with Bloc. Project link: https://github.com/MehmetUstek/threads_clone_flutter

Image Based Similar Product Finder, ***BSc Thesis Project*** *Feb 2022 – June 2022*

- The project involved a team of four members. We utilized transfer learning with a pre-trained ResNet-50 model to classify shoe images and generate recommended variations of shoes based on the user's preferences.
- I orchestrated the implementation of machine learning models, backend, and frontend applications for a recommendation engine featuring image-based classifiers. I employed Flutter for the frontend, Python Flask and MongoDB for the backend, and Python for developing the ML models. To collect product features and images from a shoe producer, I integrated a Selenium web crawler into the process. Project Link: https://github.com/MehmetUstek/Comp491