Furkan Un

Software Engineer

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in https://www.linkedin.com/in/unfurkan/   ○ https://github.com/unfurkan

Passionate and dedicated Master's student in the final stages of my studies, specializing in Security and Cloud Computing, with nearly 3 years of hands-on software development experience. Eager to collaborate with dynamic teams to solve complex real-world challenges. Adaptive and communicative, always open to feedback and continuous improvement.

PROFESSIONAL EXPERIENCE

Research Assistant   01/2024 – 08/2024 │ Espoo, Finland
Aalto University

- Took part in rewriting a web software development course website from scratch using modern web technologies,
- Deployed microservices to a Kubernetes cluster using Helm charts
- **Astro, Svelte, Tailwind, Docker, Kubernetes, Helm**

Software Engineer   01/2021 – 08/2023 │ Istanbul, Turkey
Felece

- **ITSM - Business Process Management Project**
  Backend Developer
    - Significantly improved backend service **performance,** achieving up to 40% enhancements by addressing **N+1 query problems** and implementing DTO projection **optimizations**
    - Implemented a **custom entity field change tracking** feature for key system entities.
    - **Java 17, Spring Boot, Spring Data JPA, Redis, Hibernate, Criteria API, JPQL, Java Streams API**

- **Tradegram - B2B Marketplace Project**
  Backend Developer
    - Actively involved in **code reviews** and **pair programmings**
    - Implemented various third-party service **integrations,** developed admin panel services for Content Management System (CMS) and customer invitation processes
    - **Spring Boot, RESTful API, Hibernate (ORM), JPA, Criteria API, Kafka, Redis, Swagger, Jira, Azure, Java Streams API, OAUTH2.0**

EDUCATION

Master of Science in Security and Cloud Computing (SECCLO)   08/2023 – 06/2025 │ GPA 4.63/5.00
Aalto University, KTH Royal Institute of Technology

- SECCLO ⌕ is a Erasmus Mundus joint master's degree program focused on cybersecurity and cloud computing
- **HAIC Scholarship** ⌕
- **Teaching Assistant** - Web Software Development Course

Bacholer's Degree in Computer Engineering   09/2017 – 06/2022 │ GPA, 3.74/4.00
Eskisehir Technical University

- **Dean´s List Academic Achievement Award**

SKILLS

Backend Development: Java, OOP, Spring Boot, Deno.js, Hibernate (ORM), JPA, SQL, Redis, Kafka

Frontend Development: Javascript, Svelte, HTML, CSS, Tailwind   **Database:** MySQL, PostgreSQL

Devops: Docker, CI/CD, Kubernetes, Helm, Linux   **Tools:** Maven, Git, Jira, Bitbucket, IntelliJ Idea

Testing: JUnit, Unit Testing   **Teamwork:** Agile, Scrum

COURSE WORK

- Object Oriented Design Patterns
- Information Security
- Laboratory Works In Networking And Security
- Software Engineering
- Designing Scalable Web Applications
- Data Intensive Computing

- Data Structures & Algorithms
- Network Security
- Ethical Hacking
- Cloud And Software Systems
- Database Management Systems
- Operating Systems

HOBBY PROJECTS

Question & Answer Platform ⬈

https://github.com/unfurkan/qa-app
- Q&A platform for coursework , both test and production-ready configurations.
- Implemented infinite scrolling functionality with cursor-based pagination
- **Javascript, Deno.js, Hono, Svelte, Astro, PostgreSQL, Flyway, NGINX, Docker, Kubernetes, Helm, k6**

Bookstore - RESTful API ⬈

https://github.com/unfurkan/bookstore
- Designed and implemented a PoC **RESTful API** which allows user to perform CRUD operations for a bookstore.
- Implemented entity auditing for data tracking and secured end points with **OAUTH2.0 JWT Token** authentication.
- **Java, Spring Boot, Spring Security, Hibernate, Criteria API, Docker, MapStruct**

ESTU Zero Waste - Mobile App ⬈

https://github.com/unfurkan/estu-zero-waste-app#estu-zero-waste
- User-friendly **mobile application** that aims to increase recycling habits and raise awareness of campus visitors
- Filtering waste bins dynamically on map also navigates users to the nearest waste bin based on their waste types and location.
- **Flutter, Mapbox API**

LANGUAGES

English: Advanced (IELTS Academic Score 7.0)	**Turkish:** Native Language	**Finnish:** Beginner

HOBBIES

- Kayaking
- Sauna