

Emir Talha Yucel

Email | Leicester, United Kingdom | [Linkedin](#) | [Portfolio](#)

Summary

Software Engineer in **full-stack development**, specializing in **Java**, **Spring Boot**, **React**, and **Oracle SQL**. Recently completed an **MSc in Advanced Software Engineering** at the **University of Leicester** while supporting **6** computer science modules as a **Teaching Assistant**. Former Full-Stack Developer at **Turkish Airlines**. Proven ability to excel in **agile** and **cross-functional** teams, applying clean coding, best practices, and **SOLID** design to develop scalable, high-quality systems. Open to relocation worldwide.

Skills

Programming Languages: Java, Python, SQL, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: Spring MVC, Spring Boot, Quarkus, React, React Native, Angular

CI/CD & DevOps: Git, GitHub, Gitlab, Confluence, Bitbucket, Jenkins, Jira, Docker, Gradle, Maven

Tools & Databases: IntelliJ IDEA, VS Code, Eclipse, Android Studio, Postman, PostgreSQL, MySQL, Oracle SQL

Soft Skills: Teamwork, Analytical Thinking, Problem Solving, Best Practices, Leadership

Languages: Fluent English, Native Turkish, Basic Spanish

Professional Experience

Full-Stack Software Developer, Turkish Airlines – Istanbul, Turkey

Jan 2023 - Jan 2024

Served as a Full Stack Developer in the Ground Operations team at Turkish Airlines, Turkey's flagship carrier and ranked as the 7th best airline in the world by Skytrax, before pursuing a master's degree.

- Developed **backend** and **frontend** features, and fixed bugs in **6+ projects** under **agile project management**.
- Delivered full-stack solutions utilising **Java**, **Spring Boot**, **JSF**, **HTML**, **CSS**, **JavaScript**, **React**, **Angular** and **Oracle SQL**.
- Refactored **40%** code structure of a project for the new workflow and fixed **30+** security vulnerabilities.
- Optimised page load times by converting client-side pagination to **server-side pagination** on **2+ projects** and **12 pages**, reducing loading duration from **70 seconds** to **200 milliseconds**.
- Built **REST** and **SOAP** services, delivering **16+** scalable and robust **API endpoints** with detailed documentation to ensure clarity of new structures and requirements.
- Implemented and optimized **6 scheduled jobs**, enhancing overall project performance, efficiency, and reliability.
- **Led a new project** by establishing the **initial backend** and **frontend** structure, ensuring a solid foundation for future development with **best practices**, **clean coding** and **design principles** like **SOLID**.

Part-Time Software Developer, Tubitak Bilgem – Kocaeli, Turkey

Jun 2022 - Oct 2022

Secured a Software Developer role at Tubitak Bilgem, Turkey's leading R&D center specializing in informatics, information security, and advanced electronics, during bachelor's degree.

- Engineered **backend** features and optimized existing codes using **Java**, **Spring Boot** and **Quarkus**.
- Researched **Quarkus Framework** and **Reactive Programming Paradigm** and shared the findings with team members.
- Designed a scalable **microservice** structure with **Quarkus Framework**, ensuring robust software performance.

Software Engineering Intern, Netas – Istanbul, Turkey

Oct 2020 - Jun 2021

Completed a Software Engineering internship at Netas, a leading telecommunications solutions provider focusing on ICT, systems integration, and defense sectors, during bachelor's studies.

- Coded full stack features and fixed bugs using **Java**, **Spring MVC**, **PostgreSQL**, **JavaScript**, **HTML** and **CSS**.
- Enhanced code coverage from **2%** to **84%** by implementing comprehensive unit tests using **JUnit5** and **Mockito**.

Academic Experience

Computer Science Teaching Assistant, University of Leicester – Leicester, UK

Sept 2024 - Apr 2025

Provided technical mentorship as a Computer Science Teaching Assistant at the University of Leicester across **6** modules:

- **Software Architecture and System Development:** Advised students in developing web applications utilizing **Java**, **Spring Boot**, **JSP**, **Thymeleaf** and **MySQL**, covering topics such as **REST API** and **Object Relational Mapping (ORM)**.
- **Mobile & Web Applications:** Guided students build **mobile** and **web** applications using **Java**, **Spring Boot** and **React**.
- **Service-Oriented Architectures:** Mentored students with building **REST** services in **Spring Boot**, creating **OpenAPI** specs, integrating external **APIs**, and testing via **Postman**.
- **Object-Oriented Programming:** Influenced students apply **OOP** in **Java**, following **best practices** and **SOLID**.
- **Project Management:** Facilitated students' application of software project management techniques, such as project requirements, task scheduling, risk assessment, stakeholder analysis, **Agile** and **Scrum**.

Education

University of Leicester – MSc in Advanced Software Engineering

Jan 2024 - July 2025

Leicester, UK

Grade: **Distinction**

- Demonstrated strong mentoring and problem-solving skills by answering questions and providing guidance to **300+** students per class across **6** computer science modules as a **Teaching Assistant** at the **University of Leicester**.
- Leveraged teamwork, leadership, and communication skills by spearheading **3** successful projects and driving impactful contributions to group projects across **5** modules.
- Engaged actively in university societies and events, achieving award-winning results at the **IBM Hackathon**, strengthening collaboration and problem-solving skills through effective teamwork and innovative thinking.

Relevant Courses: Service-Oriented Architectures, Generative Development, Big Data and Predictive Analytics, Analysis and Design of Algorithms, Computational Intelligence and Software Engineering, Software Measurement and Quality Assurance, Internet and Cloud Computing.

Bahcesehir University – BSc in Software Engineering

Sept 2017 - Jun 2022

Istanbul, Turkey

GPA: **3.12/4.00**

- Increased leadership capabilities by leading **5** software engineering projects and participating in **8** collaborative team projects, enhancing teamwork and communication abilities.
- Strengthened practical software engineering expertise through **industry-leading companies** (e.g., Developing Applications for Android Devices by Samsung), gaining hands-on experience aligned with professional standards.
- Expanded teamwork and collaboration abilities through active involvement in field training and as a member of the BUSAR (Besiktas Search and Rescue) affiliated university society.

Relevant Courses: Object Oriented Programming, Software Architecture, Data Structures and Algorithms, Database Management Systems, Cross Platform Application Development, Computing Systems, Web Programming with Spring Boot, Front-End Web Development, Developing Applications for Android Devices, Human Computer Interaction, Software Project Management, Non-Technical Aspects of Engineering, Programming Languages, Wireless and Mobile Networks, Analysis and Design Algorithms, Software Security, Software Verification and Validation.

Math Courses: Calculus, Probability and Statistics, Linear Algebra, Discrete Mathematics, Numerical Analysis.