

Onur Haktan

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PROFILE

Software Engineer with 2+ years of experience modernizing business-critical banking systems, migrating legacy CoolGen and monolithic platforms to Java/Spring Boot microservices for capital markets and individual pension systems. Skilled in event-driven architecture (Kafka, RabbitMQ), gRPC, and React, with direct experience delivering transaction-critical workflows in regulated financial environments.

SKILLS

Languages & Frameworks: Java, Spring Boot, React, SQL

Backend & Integration: Microservices, REST APIs, gRPC, Apache Kafka, RabbitMQ, Redis, Batch Processing

Databases & Tools: Oracle, Docker, Git, Maven, PowerDesigner, GitHub Copilot, Claude Code

Architecture & Practices: OOP, SOLID, Design Patterns, Unit Testing (JUnit), Agile/Scrum

EXPERIENCE

Software Engineer

October 2025 – Present

Garanti BBVA Technology via Linktera

Remote, Full-time

- Contribute to the modernization of **Individual Pension Systems**, migrating legacy CoolGen-based applications to microservices using Java, Spring Boot, Kafka, gRPC, React, and Oracle.
- Develop modern React-based interfaces to replace legacy screens, including workflows for individual pension exit operations.
- Applied **AI-assisted development** with a focus on model selection, context management, and token efficiency, using capable models for complex tasks and lightweight models for simpler tasks.
- Implement backend processes for pension exit workflows, including automated email, SMS, and document delivery following transaction completion.
- Participate in high-level and low-level system design, including service design, data modeling, and database schema design using PowerDesigner.

Software Engineer

June 2024 – October 2025

Yapı Kredi Technology via Metasis Technology

Remote, Full-time

- Engineered the migration of capital markets and investment systems from legacy applications to microservices using Java, Spring Boot, Kafka, RabbitMQ, Redis, React, and Oracle.
- Delivered core workflows for the microservices transformation of the **IPO platform**, covering IPO management, allocation, and payment processing, including batch jobs, file generation and transfers, notifications, and integrations with core banking and provisioning systems.
- Built a corporate actions notification workflow for international equities, processing brokerage documents, matching events with customer portfolios, and delivering personalized email and SMS notifications for events such as dividend payments.
- Integrated document-based capital markets operations with the bank's workflow management platform, enabling branch-initiated and standalone transaction flows through microservices-based services.
- Maintained project-level code coverage requirements of at least 80% by developing unit tests for backend services and business workflows.

Software Developer Intern

March 2024 – May 2024

Eczacıbaşı Bilişim

Remote, Internship

- Performed functional testing and reported software defects to support quality assurance processes.

Java Developer Intern

August 2023 – October 2023

E-Commint

Remote, Internship

- Contributed to the development of e-commerce applications using Java and Spring Boot.

PROJECTS

IPO Platform Modernization – Yapı Kredi Technology – Contributed end-to-end to the modernization of a legacy stock IPO platform into a **Java** and **Spring Boot**-based microservices architecture. Designed and implemented core workflows covering IPO definition and listing, allocation management, provisioning and payment services, approval and workflow integrations, batch processes, file generation, and email/SMS notifications. Participated in system design, database design, data modeling, backend and **React** frontend development, and integrations with surrounding banking systems. Used **Java, Spring Boot, React, and Oracle**.

Individual Pension System – Retirement Exit Module Modernization – Garanti BBVA Technology – Contributed end-to-end to the modernization of the retirement exit module of an individual pension system, responsible for processing retirement exits for customers eligible for retirement. Designed and implemented database models, core retirement workflows, transaction creation and updates, document generation, **email/SMS notifications**, and **React**-based user interfaces. Applied **Strategy, Factory, and Template Method** design patterns to support document generation that varies by retirement transaction type. Actively leveraged **AI-assisted development** throughout the project using **GitHub Copilot and Claude Digital Worker**. Used **Java, Spring Boot, React, and Oracle**.

Morning Wire – Spec-Driven, AI-Assisted Personal Project – Built a **Python** pipeline that delivers a daily personalized briefing over plain SMS to a phone with no internet access, covering markets, portfolio, news, sports, and language study. Fetches from multiple external APIs and summarizes each category through the **Claude API**. Deployed entirely on **GitHub Actions** with no server, using a webhook-driven Android relay instead of a commercial SMS provider. Designed each category to fail in isolation so one dead data source cannot cost the whole briefing. Developed with a **spec-driven, AI-assisted workflow**: written specifications and architecture decision records precede the code, one task per branch, with strict typing, linting, and secret scanning enforced automatically. Used **Python, GitHub Actions, and Claude API**.

Eye Disease Classification from Fundus Images – Graduation Thesis – Developed a deep learning-based system for classifying eye diseases from fundus images using **VGG16** and **ResNet50**, with **Grad-CAM** for visual explainability and model interpretation. Awarded **1st place among graduation projects** in the Computer Engineering Department.

Kutla! – AI-Assisted Mobile Application (Personal Project) – Mobile application using an **AI agent-driven development workflow** that generates personalized celebration visuals for holidays and special occasions by orchestrating requests to **image generation models**.

EDUCATION

Eskişehir Technical University
B.Sc. in Computer Engineering, English

Eskişehir, Türkiye
Sep. 2019 – Jun. 2024