

Arda Duman

Software Engineer

Munich, Germany
+49 151 70633018
ardaduman@icloud.com
www.arda-duman.com
in arda-duman
ard6



Software Engineer (M.Sc. Informatics, TUM) with experience building production applications using Kotlin/Java and modern frontend frameworks. Strong focus on clean architecture, maintainable code, and delivering reliable features in real-world production environments. Interested in scalable software systems, product development, and data-driven applications.

Experience

- Jun '24–May '25 **Working Student – Software Engineer, RideBee, Munich**
- Developed production features for a B2B mobility platform used by corporate clients using **Kotlin** and **Java**.
 - Led migration of legacy UI components from XML layouts to **Jetpack Compose**, improving maintainability and reducing UI complexity.
 - Refactored application modules to improve architectural separation and long-term code maintainability.
 - Collaborated with product and design teams to translate business requirements into scalable technical solutions.
- Jan '24–Jun '24 **Working Student – Frontend Engineer, Enmacc, Munich**
- Developed and maintained an internal energy trading platform using **Angular**.
 - Built reusable and modular frontend components enabling scalable development across teams.
 - Improved UI responsiveness and consistency across the platform.
- Mar '22–Aug '22 **Software Engineer, Gini Finance, Istanbul**
- Developed cross-platform application features using **React Native** and **TypeScript**.
 - Led migration of the codebase from JavaScript to TypeScript, improving type safety and maintainability.
 - Contributed to Agile development cycles including sprint planning, feature implementation, and code reviews.
- May '20–Nov '20 **Part-time Software Developer, Kurulum Cognitive Services, Istanbul**
- Contributed to a document processing pipeline leveraging **Machine Learning** models for automated ID card recognition.
 - Implemented frontend components and integrated them with backend processing services.

Education

- 2022–2026 **M.Sc. Informatics**, *Technical University of Munich*, Munich
Major: Engineering Software-intensive Systems.
Minors: Computer Architecture, Distributed Systems, Algorithms.
Master's Thesis: Risk-Aware Road Cost Framework Driven by Satellite Damage Detection for POD Location–Allocation.
Developed a framework combining satellite damage detection, GIS road network modeling, and optimization to support accessibility-aware disaster logistics planning.
- 2016–2021 **B.Sc. Computer Engineering**, *Koc University*, Istanbul, 3.03/4.00
Graduated with High Honor List. 50% Merit Scholarship.
Track Programs: Computer Systems, Networks and Software; Cryptography, Security, and Theory; Data Analytics.

Projects

RotaGo, *Co-founder*, www.rotago.com.tr

- Built a **SaaS platform** for intercity bus companies enabling dynamic ticket pricing and route optimization.
- Developed a **Flutter** application used by operators to manage route-level pricing decisions.
- Contributed to an AI-based analytics engine for transportation market analysis.
- Participated in system architecture decisions and early-stage product strategy.

Interdisciplinary Project (RideBee), *Oct '23–Jun '24*

- Collaborated in a university–industry project focused on improving a corporate car-sharing application.
- Contributed to feature development using **Kotlin** and **Java**.
- Assisted in transitioning parts of the UI from XML layouts to **Jetpack Compose**.

Anomaly Detection, *Senior Graduation Project*

- Developed anomaly detection models for cryptocurrency time-series data using **Python** and **Microsoft Azure**.
- Built a **Flutter** client delivering real-time anomaly alerts to users.

Skills

Programming	Kotlin, Java, Python, TypeScript, JavaScript, C/C++, SQL
Frameworks	Angular, Node.js, React Native, Flutter, Jetpack Compose
Cloud & Databases	Microsoft Azure, Google Cloud (Firebase), MongoDB, CosmosDB
Tools	Git, Docker (basic), Android Studio, VS Code, Jira

Languages

Turkish	Native
English	Full Professional
German	Beginner
Spanish	Beginner