



# EMIRCAN DURMUS

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## SUMMARY

Early-career engineer with hands-on experience working on web-based products across frontend, backend, and API layers in an agile environment. Currently part of an industry product team while pursuing a Research Master's degree in Data Science, with a strong focus on data analysis, machine learning, and system-level understanding. Background in Computer Engineering, with practical experience in testing, SQL, and end-to-end product workflows.

## WORK EXPERIENCE

**Quality Assurance Engineer , trivago - Dusseldorf, Germany** April 2025 - Today

- Performed manual API testing using internal tools and Postman to validate connector behavior and run sanity checks on backend changes
- Verified backend implementations against defined requirements and reported issues in Jira with clear reproduction steps, expected behavior, and actual results
- Worked as QA in the team for trivago Business Studio and tested features across the whole product, covering both frontend and backend work.
- Designed and executed manual test scenarios in a staging environment, covering defined user flows and edge cases derived from acceptance criteria
- Tested new and existing APIs with Postman by analyzing status codes, response payloads, and business rules, and confirmed results through targeted database checks.
- Used existing and self-written SQL queries to verify data creation and updates, and to analyze sales-related requests by checking underlying data and system behavior as part of internal issue investigations
- Contributed to test automation by implementing my first end-to-end test for hotel offer creation flows and adding initial scenarios to the existing test suite.

**Information Technology Intern, Kadir Has University - Istanbul, Turkey** June 2024 – July 2024

- Provided user support for internal IT systems and assisted with day-to-day technical issues
- Supported system setup and basic configuration tasks within the university's IT environment

**Computer Engineer Intern, Ziraat Teknoloji AS - Istanbul, Turkey** July 2023

- Learned and worked with SQL in a professional environment, focusing on basic queries and data retrieval
- Gained introductory experience with relational databases and enterprise-level systems

## EDUCATION

**Master of Science - MS, Data Science (Research Master)** Sep 2024 - Oct 2026  
Hochschule Bielefeld - Gütersloh, Germany

- Reinforcement Learning to Optimally Control Material Flows in a Production Environment

**Bachelor of Science - BS, Computer Engineering** Sep 2019 - Sep 2024

Kadir Has University - Istanbul, Turkey

- Grade: 3.12/4.00
- Exchange Semester (Erasmus+), Computer Engineering, Universidad de Castilla-La Mancha, Spain (2022–2023)

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## PROJECTS

### Graph-Based Job Recommendation System (Master's Course Project)

- Designed and implemented a job recommendation system using graph-based data modeling and recommendation logic
- Modeled relationships between users, job applications, and job attributes to generate personalized recommendations
- Applied data analysis and graph algorithms to improve recommendation relevance and explainability
- **Technologies:** Python, Neo4j, Graph Data Modeling, Data Analysis

### Emotion Recognition System (Bachelor's Graduation Project)

- Developed a deep learning-based application to analyze user emotions from text input and facial expressions captured via live camera footage
- Implemented data preprocessing and model inference pipelines to support real-time emotion prediction
- **Technologies:** Python, Deep Learning, PyQt5

### Green Grocer Management Application (Bachelor's Course Project)

- Developed a database-driven application to support interactions between customers, business owners, and carriers within a grocery ordering platform
- Designed core workflows for user registration, product browsing, and order management
- **Technologies:** Java, MySQL, XML

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## ADDITIONAL INFORMATION

### Technical Skills:

- **Programming & Scripting:** Python, SQL, Java, C++
- **Testing & QA:** Manual Testing, API Testing, Test Automation (basic), Postman, Jira
- **Data & ML:** Data Analysis, Machine Learning, Reinforcement Learning (academic), SQL based Data Validation
- **Tools & Technologies:** Git, REST APIs, Agile / Scrum

### Languages:

- Turkish (Native)
- English (Advanced)
- German (Beginner)

### Awards/Activities:

- Received the Kadir Has University Honor Scholarship for achieving a GPA above 3.75 in the first year.