Mehmet Ruchan Yavuzdemir

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EDUCATION

- **Middle East Technical University**   **Ankara, Turkey**
  Bachelor of Science - BS, Computer Science (**CGPA: 3.57/4.00, Magna cum laude**)   *October 2021 — June 2026 (Expected)*
- **University of Ottawa**   **Ottawa, Canada**
  Exchange Program, Computer Science (**GPA: 3.80/4.00, Magna cum laude**)   *January 2024 — April 2024*

EXPERIENCE

Full Stack Engineer Intern — Tübitak   *September 2024 — Present*

- Developed responsive web pages for an employee information management system, following **Figma** UI designs.
- Integrated new features to frontend and backend using **Typescript**, **React.js**, **Node.js**, **Next.js**, and **Java Spring Boot**.

Campus Leader — Notion   *August 2024 — Present*

- Collaborated with fellow Campus Leaders and the Notion team across the **USA**, **Canada**, **the UK**, and **Australia**, strengthening **international teamwork** and knowledge sharing.
- Built and nurtured a local Notion community, offering **peer-to-peer mentoring** and driving **collaboration** across my school and workplace.
- Enhanced the **productivity** of peers and colleagues by sharing advanced Notion use cases, **supporting** them in becoming even more successful in their lives.
- Delivered **clear**, **detailed explanations** of Notion's product features and tips **tailored** to new users' varying expertise and needs, improving their adoption and engagement.

Undergraduate Research Assistant (RA) — University of Illinois Urbana-Champaign   *May 2024 — July 2024*

- Conducted research investigating **large language models**' (LLMs) and traditional transpilers' code translation capabilities, comparing their accuracy and collaborating with an undergraduate research team led by **Professor Reyhaneh Jabbarvand**.
- Contributed to an empirical analysis of LLM-generated **Java** code, manually labeling mutant code snippets, assessing their impact on program behavior, and identifying potential bugs introduced by LLMs.
- **Containerized** the research project using **Docker**, enabling multiplatform support for my team to reproduce test results.
- Explored symbolic execution and **code coverage** tools, KLEE and gcov, respectively, for the university's C codebase.

Backend Engineer Intern — Getir   *February 2023 — January 2024*

- Enhanced **core order** services, including checkout, preparation, and cancellation endpoints, gaining domain expertise by participating in daily, retrospective, spring planning and review, refinement, business, and **technical design meetings**.
- Developed **REST APIs** for **microservices** and a **monorepo** using **MVC** architecture, implementing best practices and design patterns, and utilizing **object-oriented programming** with **Java Spring Boot**, **JavaScript Node.js**, and **TypeScript NestJS**.
- Led my team in enhancing the existing shop order preparation and cancellation handling system through an endpoint processing **10,000** requests per hour, resulting in a notable **15%** increase in customer satisfaction.
- Used **AWS Textract** OCR service and **Apache Kafka** to analyze **30,000** pending invoices, and integrated **parallel processing**.
- Used **Docker** for a local development environment, and utilized **PostgreSQL** and **MongoDB** as main databases, also developed a **Redis** cache configuration service, implementing lazy loading caching strategy.
- Wrote **unit** and **integration tests** and solved **bugfix tasks**, actively participated in **code reviews**, and resolved numerous **Git merge conflicts**. Performed **log monitoring** in **New Relic**, and **Kubernetes** pod checks in **Spinnaker**.

Frontend Engineer Intern — Bayzat   *July 2022 — August 2022*

- Developed an internal developer tool using **Go** and **Bubble Tea**, displaying the company's deployment and release history.

CERTIFICATIONS & HONORS

Professional Certificate Holder

- Acquired **AWS Certified Developer – Associate Certificate** and **Meta Back-End Developer Professional Certificate**.

Winner of the Algorithm Competition Camp Final

- Achieved **1st** place in a prestigious **data structures and algorithms** camp's **final** contest, outperforming 10 competing teams.

Turkey's University Entrance Exam (YKS) - Math and Science Fields

- Ranked **21st** out of **2.5 million** students by solving **196/200** problems; awarded **university and government scholarships**.