Erdem Önal

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Education

Université Jean Monnet – Saint-Étienne, France   Sept 2025 – Present

Master of Science in Computer Science
Track: Cyber-Physical Systems: AI and IoT (CPS2), joint program with Mines Saint-Étienne

Işık University – Istanbul, Turkey   Sept 2021 – July 2025

Bachelor of Science in Computer Engineering
GPA: 3.2/4.0 (*Cum Laude, Department Valedictorian*)

Mälardalen University – Västerås, Sweden   Sept 2024 – Jan 2025

Erasmus+ Exchange Semester in Computer Science
GPA: 3.8/4.0
Completed three postgraduate courses: Industrial Systems in Cloud Computing (DVA500), Software Verification and Validation (CDT414), Safety Critical Systems Engineering (DVA437)

Experience

Research Intern, Mälardalen University – Västerås, Sweden   Oct 2024 – Jan 2025

- Developed a database management tool for the nuScenes dataset at the Heterogeneous Systems Research Group, with PostgreSQL and a GUI for CRUD operations and custom SQL queries.
- Built containerized Python data pipelines with Docker and REST API to manage autonomous driving datasets for AI training.

Full-Stack Developer Intern, Etiya – İstanbul, Turkey   July 2024 – Aug 2024

- Created a React.js browser extension to generate and export random test data for Türk Telekom OMNI QA tasks.
- Implemented an Agile project management tracker with Java Spring Boot to analyse team progress.

Research Interests

Cyber-Physical Systems · Knowledge Representation · Multi-agent Systems · Safety Critical Systems

Languages

Turkish: Native | **English:** C1 Advanced proficiency | **French:** A1 Basic proficiency