Anil Demirok

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Education

Marmara University – *B.Sc. in Computer Engineering* *Jan 2026*

Experience

Software Engineer Intern — *UESTCO Energy Systems - Istanbul, Turkey* *Jul 2025 – Aug 2025*

- Designed and implemented a layered backend application using C#, .NET, and PostgreSQL, adhering to layered architecture principles to ensure clear separation of concerns and maintainability
- Developed a scalable data access layer using the generic repository pattern, implementing raw SQL queries with Dapper instead of traditional ORM to achieve enhanced performance
- Designed secure REST API with JWT authentication, DTO-based responses, and FluentValidation to prevent data exposure and enforce robust input validation
- Ensured code quality and best practices by discussing design and implementation decisions with senior engineers during code walkthroughs and feedback sessions

Software Engineer Intern — *Eryaz Software - Istanbul, Turkey* *Sep 2025 – Nov 2025*

- Maintained legacy B2B web applications on .NET Framework 4.0 by debugging large, undocumented SVN-based codebases across multiple client-specific solutions
- Investigated and resolved long-standing customer tickets involving missing or partially implemented features by identifying and fixing incomplete or commented-out functionality in the same codebase

Projects

Mychronicle — Cloud Native Media Tracking Platform linazze.com

- Designed a backend service with FastAPI and Pydantic models, implementing a RESTful API along with a React frontend, integrating multiple APIs and MongoDB to support centralized media tracking across multiple content types
- Improved deployment scalability and portability by containerizing the backend with Docker and deploying it on Google Cloud Run
- Reduced deployment time by 80–87% and downtime risk by designing and implementing a GitHub Actions CI/CD pipeline that replaced manual VM releases with automated deployments
- Reduced 3rd-party API dependency and media detail latency by 88% (validated via k6/Grafana) by implementing Redis caching for popular search functions and persistent storage
- Improved backend reliability and reduced issue detection time by implementing end-to-end observability with OpenTelemetry, Prometheus, and Grafana.

Burn Image Classification — Machine Learning Research Project demirokanil.com/my-projects/FinalYearThesis

- Built a dataset of 5,676 training images by integrating multiple sources and applying data collection and preprocessing techniques to address dataset limitations
- Developed a medical image classification system achieving 92% accuracy using a custom-trained RegNetY-080 CNN
- Designed a multi-stage preprocessing pipeline with background removal, color-space transformations, and clustering to accurately isolate burn regions

Skills

Languages: Python, Java, C#, TypeScript
Frameworks & Tools: FastAPI, React, Pydantic, Git, TanStack Query, OpenTelemetry, Grafana, Prometheus, Tailwind CSS
Database & Cloud/DevOps: Docker, GitHub Actions, Google Cloud Run, Linux/Unix, SQL, PostgreSQL, MongoDB, Redis