

Dirshaye Faltamo

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TECHNICAL SKILLS

- **Languages:** Python, Go, Java, JavaScript/CSS/HTML, SQL, Bash/Shell.
- **Frameworks:** FastAPI(Backend), React(UI), PlayWright(Testing).
- **Databases:** Postgres(SQL), MongoDB(noSQL), Redis(cache).
- **DevOps:** Docker, Terraform(IaC), Git/GitHub Actions (CI/CD), Linux.
- **Cloud(AWS):** EC2, S3, VPC, CloudWatch, IAM.

EXPERIENCE

Backend Software Engineer Intern

FlyRobotics

Tomar, Portugal

April 2025 - September 2025

- Designed and built a FastAPI backend that served as the API layer between robotics systems and a React frontend, ensuring secure and reliable data flow.
- Modeled and implemented a PostgreSQL relational database schema, optimizing queries for device and time-based measurement retrieval.
- Developed RESTful endpoints with Pydantic validation, structured logging, and error handling, improving system robustness and debugging visibility.
- Collaborated cross-functionally with robotics and frontend teams to define API contracts, align data models, and deliver production-ready backend features.

PROJECTS

OmniPrice — AI-Powered dynamic pricing system | Full Stack(FastAPI · MongoDB · React · Docker · Terraform · AWS)

- Developed an AI-powered pricing platform (FastAPI, MongoDB, React) that automates competitor tracking, resulting in a 90% reduction in manual effort. .
- Implemented a robust background worker pattern using RabbitMQ to handle resource-intensive scraping tasks asynchronously without blocking user requests.
- Integrated a Gemini-powered AI layer to generate automated pricing rationales and insights, utilizing asynchronous processing to reduce analyst decision-making.
- Provisioned production-grade AWS infrastructure using Docker and Terraform (IaC), including ECS Fargate, Managed Redis, and ALB for a secure, zero-maintenance compute layer.

LagWatch — Out-of-Band PC Lag Triage Service | Golang · Linux · JS/CSS/HTML

- Built a lightweight host observability service in Go using a concurrent collector/aggregator pipeline (goroutines + buffered channels) to capture CPU, memory, disk, and network telemetry with low runtime overhead.
- Exposed a dual data interface: JSON snapshot APIs for fast out-of-band checks from secondary devices, and a Prometheus-compatible endpoint for time-series scraping and historical analysis.
- Integrated Prometheus and Grafana for optional deep-dive analysis, with dashboards that convert raw system metrics into actionable signals for performance bottlenecks and capacity pressure.

EDUCATION

Manisa Celal Bayar University

Bachelor of Science in Software Engineering (Fully funded Scholarship)

Manisa, Turkey

September 2022 - June 2026

- **Relevant Coursework:** OOP, Data Structures and Algorithms, Computer Networks, Software Testing, Software Design and Architecture, Software Requirements and Analysis, Service-Oriented Architecture, Database Management System.
- **Honors:** Sole department representative for Erasmus+ Exchange Program for Spring 2025 semester.

Polytechnic Institute of Tomar

Erasmus+ Exchange Study program in Computer Engineering

Tomar, Portugal

Feb 2025 - July 2025

- **Relevant Coursework:** Operating Systems, Project Management, DevOps, Intelligent Systems, Internet of Things.