

# 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.