

Diogo Ferreira

From Portugal | Living in Belgium

diogodsferreira@gmail.com | linkedin.com/in/diogo-ferreira | github.com/diogodanielsoaresferreira | diogodanielsoaresferreira.github.io

EXPERIENCE

Software Engineer

Dec. 2023 – Present

Timefold

Remote, Belgium

- Built a multi-tenant scheduling optimization platform from scratch as the second engineer on the team, now scheduling 1M+ route visits and 100K+ vehicles per week, alongside more than 100k daily employee-shift jobs
- Powered routing optimizations estimated to save customers €1.25M+ per week and cut 250,000 kg CO2 weekly by optimizing vehicle routing and shift allocation algorithms
- Designed core backend systems in Java and Quarkus, and operated the platform on Kubernetes across AWS, Azure, and GCP to run planning jobs at scale

Software Engineer

Nov. 2021 – Nov. 2023

Blip

Remote, Portugal

- Built event-driven microservices for Betfair, PaddyPower and FanDuel, handling peak traffic of 10M+ events/sec with 99.9%+ availability by leveraging Kafka, Akka and Kubernetes for scalable processing and resilient deployments
- Handled on-call and production monitoring during peak live events (2022 FIFA World Cup, Cheltenham 2022), maintaining service stability under extreme traffic spikes
- Worked with Java, Kotlin and Scala, using Akka, Kafka, Spring and Flink to ensure scalable and observable systems in a high-traffic environment

Software Engineer

Sep. 2019 – Nov. 2021

Talkdesk

Remote, Portugal

- Built robust pipelines to convert speech to text, processing 4M+ events daily while keeping processing failures under 0.1% by implementing idempotent consumers, observability and automated alerting
- Built pipeline to enrich text with NLP analysis, such as intent classification, sentiment analysis and summarization
- Developed data-driven backend services using Java, Quarkus, Apache Camel, Kubernetes, Kafka and AWS

Student Researcher

Oct. 2017 – Aug. 2019

Instituto de Telecomunicações

Aveiro, Portugal

- Designed a distributed, real-time forecasting architecture (microservice-based, horizontally scalable) that predicted network anomalies via ML models to maintain quality of service; on a live deployment across 600+ connected vehicles serving 200K+ daily users, the model cut forecast error to an RMSE of 22.11 sessions/hour
- Built a smart-city network monitoring platform (Python, Django) with real-time alerting and actuation
- Published the work in 4 peer-reviewed papers

Software Intern

Jul. 2016 – Aug. 2016

Aptoide

Lisbon, Portugal

- Built a tool to detect explicit content in the Aptoide Store using Python and ML techniques, achieving over 95% accuracy

EDUCATION

Integrated MSc in Computer and Telematics Engineering

2014 – 2019

University of Aveiro

Aveiro, Portugal

- Grade: 18.21/20 – Best student of the course (2018/2019). Dissertation grade: 20/20. Merit award recipient.

TECHNICAL SKILLS

Languages: Java, Kotlin, Python

Frameworks: Spring, Quarkus, Apache Camel, Akka, Flink, FastAPI, Django

Cloud & DevOps: Kubernetes, Docker, AWS, Azure, Google Cloud, Helm, GitHub Actions, Jenkins

Data & Messaging: Kafka, RabbitMQ, PostgreSQL, MongoDB, Elasticsearch