

Abdelrahman Kandil

SOFTWARE ENGINEER · BACKEND-FOCUSED FULL-STACK

Hamburg, Germany

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Summary

Backend-focused full-stack engineer with six years of building production platforms in Python and Django. Owned an advertising platform spanning thousands of screens across Germany and built core services of an MLOps platform used by major banks, from architecture and inter-company APIs to frontend. Mentor developers and set the standards teams build on.

Skills

Languages	Python, TypeScript, JavaScript, SQL, Rust (learning)
Backend	Django, DRF, FastAPI, SQLAlchemy, Celery, Temporal, Kafka, OpenAPI
Data	PostgreSQL, Elasticsearch, Redis, Azure Blob Storage, Metabase
Frontend	Angular, Angular Material, Storybook, Chromatic, Tailwind
Infrastructure	Docker, Kubernetes, Terraform, Nginx, Linux, Azure, AWS, GitLab CI, GitHub Actions
Observability	Sentry, Prometheus, Grafana
Quality & AI Tools	Pytest, mypy, ruff, pre-commit, Claude, Cursor, Codex, Copilot

Experience

RegioHelden GmbH

Remote, Germany

Software Engineer

Dec. 2023 - Present

Digital marketing company building advertising products for Ströer, Germany's leading out-of-home media company; worked across several product teams.

- Owned a nationwide digital out-of-home advertising platform end to end for a year as sole developer (backend, frontend and releases), serving thousands of screens across Germany with tens of thousands of campaigns and ads, working directly with the product owner and clients.
- Designed and built in-house ad creation from scratch: a workflow with integrated client–designer chat and review feedback loops, turning ad production into a service RegioHelden offers.
- Built the AI pipeline integration with the client's AI model team from start to finish, including the inter-company APIs between the platform and their models.
- Built scheduled campaign updates and Metabase reporting integrations; standardised background workflows on Temporal across products for shared visibility.
- Onboarded 2+ developers and a new product owner as the team grew, and set the review and testing standards the team still uses.

Synapse Analytics

Cairo, Egypt

Backend Developer (Intern from Jul. 2020)

Jul. 2020 - Dec. 2023

AI startup serving banks and financial institutions; joined as an intern while studying and grew into a core backend engineer across its products.

- Architected and built, as sole engineer, the authentication, subscription and billing services shared across all Synapse products.
- Built core services of Konan, Synapse's MLOps platform (deployment API, retraining pipeline), used by major banks and financial institutions to run hundreds of models in production without their own ML infrastructure.
- Contributed to making Konan fully deployable air-gapped and self-hosted (Terraform, hardened Docker images, Kubernetes, Cython-compiled code), owning the work to make its services configurable enough to run on clients' own infrastructure.
- Built the backend for Azkavision: real-time streaming from hundreds of security cameras with live model inference, over WebSockets and Protobuf.
- Rewrote a legacy Western Union application for cross-branch money transfers as an intern, improving page load and API latency by more than 30% with no change for users.
- Mentored interns and juniors, onboarded new developers, and gave technical talks on Celery pitfalls and authentication & subscription design.

Education

Ain Shams University

Cairo, Egypt

Bachelors in Computer Science

2017 - 2021