Rabia Yoruk

Senior Software Engineer

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Summary

Backend engineer with 7+ years of experience building APIs, microservices and data-heavy systems in Python. Most recently built backend services for a manufacturing ERP used by 4 enterprise customers; before that led the engineering team at OptiWisdom as Tech Lead and ran production services on AWS, GCP and Azure. Strong in Django, Flask, FastAPI, Kafka, PostgreSQL, Docker, Kubernetes and CI/CD.

Experience

09/2025 - 11/2026 **Senior Software Engineer**, *PeK Automotive (Peker Holding)*, Slovenia · Remote
- Built backend services and workflows (Python, Django, Angular/TypeScript) for the company's manufacturing ERP, used in-house at its Slovenian electric and agricultural vehicle plant and by 4 enterprise customers.
- Worked with software teams in Slovenia and Türkiye to turn production and operations requirements into system workflows.

02/2025 - Present **Co-Founder**, *Scrapus (side project, part-time)*, Tallinn, Estonia
- Built an automated web-monitoring product, first deployed for TEB (Turkish Pharmacists' Association): it scans online marketplaces for banned medicine listings and reports them into the client's systems.
- Collects and processes about 60,000 records per day for that client, end to end from collection to API delivery, with minimal maintenance.
- Built LLM agents and RAG pipelines that enrich, classify and qualify the collected data.

03/2025 - 06/2025 **Senior Backend Engineer**, *SayAbra (startup)*, California, US · Remote
- Designed and built Sayabra.ai, an AI-powered cold-outreach platform for sales teams, end to end with React, Django and FastAPI: LLM features (RAG, agents), database design and cloud deployment; took the product from zero to its first trial users.

01/2023 - 05/2025 **Tech Lead**, *OptiWisdom*, Istanbul, Türkiye
- Led the engineering team running about 5 projects in parallel (20+ delivered) for enterprise clients including Turkcell, Sabancı DX, Entertech, Karayol Lastik and BEM Funding.
- Led the build of an AutoML platform for Turkcell (Next.js front end, Python services).
- Owned architecture and tech stack decisions for AI, data and software products; set up and ran client projects on AWS and GCP (incl. Firebase).
- Built event-driven backend and data services with Kafka and Node.js for enterprise client projects.
- Ran company operations with the founder: hiring, agile delivery and performance tracking.

02/2022 - 01/2023 **Backend & ML Engineer**, *OptiWisdom*, Istanbul, Türkiye
- Built the API and service layer for Kolay.AI (about 10 SME clients) and XchangeWiser (about 1,000 users).
- Set up CI/CD on AWS and Azure for model versioning, retraining and deployment; containerized services with Docker and ran them on Kubernetes and AWS ECS.

04/2020 - 02/2022 **Backend Engineer**, *OptiWisdom*, Antalya, Türkiye
- Built REST APIs and microservices in Flask and Django.
- Implemented authentication and authorization with JWT and OAuth2.
- Added background job processing with Celery and Redis, plus error monitoring.
- Designed and tuned PostgreSQL and MySQL schemas (indexing, query optimization) using SQLAlchemy and Django ORM.

06/2019 - 09/2019 **Backend Developer**, *Epigra*, Istanbul, Türkiye
- Built custom web applications and CMS projects in PHP/Laravel; worked on data modeling and API integrations.

01/2018 - 05/2019 **Python Developer**, *Bilkav Education and Consultancy*, Istanbul, Türkiye

- Wrote Python automation and data processing tools; co-authored two introductory programming books (internet fundamentals, C++).

Skills

Backend	Python, Django, Flask, FastAPI, Node.js, REST APIs, microservices, Kafka, JWT/OAuth2, Celery, Redis
Databases	PostgreSQL, MySQL, SQLAlchemy, Django ORM, query optimization
Cloud & DevOps	AWS (EC2, ECS, S3, RDS), GCP (incl. Firebase), Azure, Docker, Kubernetes, GitLab CI/CD
Other	SQL, TypeScript/JavaScript, Java (working knowledge), Angular, React, Next.js, PHP/Laravel, LLM apps (RAG, AI agents), data pipelines, ML deployment
Spoken	Turkish (native), English (professional)

Education & Certifications

2027-2029 **M.S. Software and Security Engineering**, Texas Tech University, Dallas, TX

2017-2022 **B.S. Software Engineering**, Istanbul Sabahattin Zaim University, Istanbul

2024-2025 **Data Science coursework**, Galatasaray University, Istanbul

Certifications AWS Certified Solutions Architect Associate (in progress, expected Dec 2026); Lean Six Sigma, Borusan Automotive, 2024

Publications

A review of AI-based business lead generation: Scrapus as a case study. *Frontiers in Artificial Intelligence*, 2025.

An AI-based personalised job recommendation and application assistant agent. *Journal of Data Analytics and AI Applications (D3AI)*, 2025.

Enhancing SME operations with machine learning and business intelligence: a case study of Kolay.ai. *D3AI*, 2025.

Customer lifetime value (Müşteri Yaşam Boyu Değeri), with E. Eşmekaya. *YBS Ansiklopedi*, 5(2), 2018.

Books (co-author, in Turkish, 2018): *How the Internet Works*; *Introduction to C++ for Beginners*.