Andrii Mandziak

Senior Software Engineer

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👤 PROFILE

Senior Software Engineer and Backend Developer with over 10 years of extensive experience delivering scalable, secure, and cloud-native applications across diverse industries.

Strong expertise in backend development using **Python** frameworks such as **Django, FastAPI, and Flask**, with hands-on experience building microservices, **RESTful APIs**, **GraphQL** services, and real-time data platforms.

Proficient in frontend technologies including **React.js, TypeScript**, and **Tailwind CSS**, with solid full-stack collaboration experience and a strong focus on API design and performance.

Deep experience in DevOps and cloud infrastructure, leveraging **Docker**, **Kubernetes**, **AWS**, **GCP**, **Terraform**, **Jenkins**, and **GitHub Actions** to design **CI/CD** pipelines, automate deployments, and operate highly available production systems.

Hands-on experience integrating **AI** and **ML** solutions into backend systems, including data processing pipelines, model deployment, and **LLM**-powered features using tools such as **scikit-learn, TensorFlow, LangChain**, and **LangGraph**.

🎓 EDUCATION

Bachelor's degree, Computer science
Czech Technical University in Prague
09/2012 – 07/2016 | Prague, Czech Republic
Built expertise in scalable system design, software architecture, and emerging technologies through advanced coursework and hands-on projects.

💼 PROFESSIONAL EXPERIENCE

Senior Backend Developer
Limestone Digital
07/2023 – 11/2025 | Karlín, Czech Republic

- Developed and maintained 10+ backend services and APIs (REST/GraphQL) using Python, Django, and FastAPI, supporting high-traffic applications.Improved data retrieval efficiency by 30%, enabling the implementation of new features.
- Integrated multiple third-party systems, automating workflows and reducing manual data handling by 40%.
- Designed and implemented AI-powered backend features using LangChain and LangGraph to orchestrate LLM workflows, enable retrieval-augmented generation (RAG), and integrate external tools and data sources.
- Applied AI/ML tools such as TensorFlow and scikit-learn to optimize data processing and model deployment, improving prediction accuracy and system intelligence.
- Built ML pipelines using Pandas, NumPy, MLflow, and AWS/GCP services for model training, evaluation, deployment, and monitoring in production environments.
- Ensured 99.9% uptime and secure operations through monitoring and optimization.
- Worked in Agile teams, delivering end-to-end solutions on time and within scope.
- Enhanced deployment pipelines (AWS/GCP/Docker/Kubernetes), increasing release frequency by 25%.
- Contributed to code reviews and backend architecture, boosting team productivity by 20%.

Backend Developer
OAK'S LAB
11/2021 – 06/2023 | Prague, Czech Republic

- Architected backend solutions for 8+ client projects, significantly improving system maintainability and delivery speed.
- Built and optimized 15+ APIs and microservices, supporting apps for 20,000+ active users.
- Integrated third-party services and internal data pipelines, increasing operational efficiency by 35%.
- Scaled systems to handle up to 500 concurrent requests per second, ensuring performance under load.

🧠 SKILLS

Core
- Python, PHP, Node.js
- Django, FastAPI, Flask, Express
- RESTful API design & development
- GraphQL API development
- Microservices architecture
- Asynchronous programming
- Object-Oriented Programming (OOP)
- Design patterns & clean architecture

Database
- PostgreSQL, MySQL, MongoDB
- Query performance tuning
- ORM proficiency (Django ORM, SQLAlchemy, etc.)

Cloud & DevOps
- AWS (EC2, S3, Lambda, RDS, CloudWatch)
- Docker & containerization
- Kubernetes
- CI/CD pipelines (GitHub Actions, GitLab CI, Jenkins)
- EGINX

Message Queues & Distributed Systems
- Celery + Redis Queue
- RabbitMQ
- Kafka

AI/ML Technologies
LangChain, LangGraph, LLM, TensorFlow, Scikit-Learn, PyTorch

Frontend Technologies
React.js, Next.js, Tailwind CSS

Testing & Quality
- Unit testing (pytest, unittest)
- Integration & end-to-end testing
- Debugging & profiling

Collaboration & Tools
- Git & version control
- Agile/Scrum
- API documentation (Swagger/OpenAPI, Postman)

- Collaborated cross-functionally to ensure timely feature releases (90% on-time rate).
- Implemented secure authentication, maintaining zero security incidents in production.

Backend Developer
AMgrade

06/2019 – 10/2021 | Prague, Czech Republic
- Designed and maintained scalable backend services using Python, Django/FastAPI, supporting 30,000+ users.
- Created 20+ APIs, reducing latency by 25% and improving system response times.
- Engineered complex data models for advanced reporting and business logic across multiple product lines.
- Achieved 99.95% system uptime by optimizing workflows and monitoring performance.
- Ensured compliance by implementing robust authentication for 50,000+ accounts.
- Leveraged cloud technologies (Docker, Kubernetes, CI/CD) to streamline deployment processes, reducing cycle time by 30%.

Backend Developer
A.P.R.O. Software

01/2017 – 05/2019 | Prague, Czech Republic
- Developed 12+ backend services and APIs, serving 25,000+ users with seamless integration between systems.
- Streamlined data flows by integrating external and internal platforms, cutting manual work by 40%.
- Boosted database performance and throughput by 45% with advanced caching and query optimization.
- Secured over 60,000 user accounts with custom authentication solutions.
- Delivered high-reliability systems using Agile processes and cross-team collaboration.