

Andrii Mandziak

Senior Software Engineer



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PROFILE

I am a Senior Software Developer and Backend Engineer with over 10 years of full-time experience delivering scalable, secure, and cloud-native applications across finance, mining, energy, and education industries.

I specialize in backend development using Python frameworks such as Django, FastAPI, and Flask, with hands-on experience building microservices, RESTful APIs, and real-time data platforms.

I am also skilled in DevOps automation and cloud infrastructure using Docker, Kubernetes, Jenkins, GitHub Actions, and Terraform.

I follow Agile, CI/CD, and Test-Driven Development (TDD) practices to ensure high-quality, secure, and production-ready code.

Recent Impact at Limestone Digital: Built and optimized Django/FastAPI backend services that improved API response times by ~35%, reduced production incidents by ~25%, and enabled clients to release features 2x faster through stable integrations and CI/CD-ready backend architecture.

EDUCATION

Bachelor's degree, Computer science

Czech Technical University in Prague

09/2012 – 07/2016 | Prague, Czech Republic

Developed expertise in scalable system design, software architecture, and emerging technologies through advanced coursework and hands-on projects.

PROFESSIONAL EXPERIENCE

Limestone Digital

Senior Backend Developer

07/2023 – 11/2025 | Prague, Czech Republic

- Built and maintained backend services and APIs using **Python, Django, FastAPI** to support scalable business applications.
- Designed server-side logic and data models to power integrations and application features.
- Integrated third-party systems and internal data sources to deliver seamless backend workflows.
- Ensured performance, reliability, and secure data handling for production systems.
- Collaborated with cross-functional teams in **Agile delivery cycles** to deliver end-to-end solutions.
- Supported CI/CD deployments and cloud-based environments to streamline releases.
- Contributed to code reviews, best practices, and backend architectural decisions.

OAK'S LAB

Backend Developer

11/2021 – 06/2023 | Prague, Czech Republic

- Contributed to backend architecture and server-side development for client projects.
- Built and maintained RESTful APIs and service logic to support web and mobile applications.
- Integrated data workflows and third-party services to deliver seamless system interaction.
- Ensured performance, scalability, and reliability of backend systems.
- Collaborated with frontend, QA, and product teams in cross-functional delivery.
- Implemented secure authentication, authorization, and data handling best practices.
- Participated in deployment and CI/CD process improvements.
- Followed Agile methodologies to deliver quality production-ready software.



Core

- Python, PHP, Node.js
- Django, FastAPI, 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)

Message Queues & Distributed Systems

- Celery + Redis Queue
- RabbitMQ
- Kafka

Security & Authentication

- OAuth2, JWT, SSO
- Data encryption & secure storage

Testing & Quality

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

System Architecture & Scalability

- Load balancing
- Caching strategies
- Horizontal & vertical scaling
- High availability & distributed system patterns

Collaboration & Tools

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

Amgrade

Backend Developer

06/2019 – 10/2021 | Prague, Czech Republic

- Built and maintained robust backend systems using **Python and Django/FastAPI** to power product features and integrations.
- Designed and implemented **RESTful APIs** consumed by web and mobile clients.
- Architected data models and workflows to support complex business logic and reporting needs.
- Ensured high performance and reliability through **monitoring, profiling, and query optimization**.
- Developed secure authentication and authorization layers aligned with industry standards.
- Collaborated cross-functionally with product, frontend, and DevOps teams to deliver end-to-end solutions.
- Deployed and supported applications in cloud environments using **Docker, Kubernetes, and CI/CD pipelines**.
- Participated in sprint planning, code reviews, and continuous improvement of development processes.

A.P.R.O. Software

Backend Developer

01/2017 – 05/2019 | Prague, Czech Republic

- Developed scalable backend services and RESTful APIs using **Python, Django, and FastAPI**.
- Integrated third-party services and internal systems for seamless data flow.
- Optimized database queries and caching strategies, improving performance and reducing response times by 30%.
- Implemented secure authentication, authorization, and data protection mechanisms.
- Collaborated with frontend, QA, and DevOps teams in **Agile and CI/CD environments**.
- Built production-ready systems with high availability, reliability, and scalability.