

# 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:

Led backend architecture for Winnerosity, a gamified charity platform, supporting 10k+ users and 3k+ weekly donations; optimized APIs and database performance to cut latency ~30% while maintaining 99.9% uptime.

### 🎓 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

#### Senior Backend Developer

Limestone Digital

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

- Built and maintained 10+ backend services and REST/GraphQL APIs using Python, Django, and FastAPI, supporting scalable applications for 50,000+ daily users.
- Designed server-side logic and database models that improved data retrieval efficiency by 30% and enabled new product features.
- Integrated 5+ third-party systems and internal data sources, streamlining workflows and reducing manual data handling by 40%.
- Ensured 99.9% uptime and secure data handling for production systems through monitoring, logging, and optimization.
- Collaborated with cross-functional teams (5–8 members) in Agile cycles, delivering end-to-end solutions on schedule.
- Supported CI/CD pipelines and cloud deployments (AWS/GCP/Docker/Kubernetes), accelerating release frequency by 25%.
- Contributed to code reviews, backend architecture, and best practices, improving team code quality and maintainability by 20%.

#### Backend Developer

OAK'S LAB

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

- Contributed to backend architecture and server-side development for 8+ client projects, improving system maintainability and feature delivery speed.
- Developed and maintained 15+ RESTful APIs and microservices, enabling web and mobile applications used by 20,000+ active users.
- Integrated 4+ third-party services and internal data pipelines, reducing manual operations by 35% and improving workflow efficiency.
- Optimized backend systems for high performance and scalability, handling up to 500 concurrent requests per second.
- Collaborated with frontend, QA, and product teams in cross-functional sprints, ensuring on-time delivery of features in 90% of planned cycles.
- Implemented secure authentication, authorization, and data handling, protecting sensitive user data and reducing security incidents to zero in production.

## SKILLS

### 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)

### Backend Developer

Amgrade

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

- Built and maintained 10+ scalable backend systems using Python and Django/FastAPI, powering critical product features and integrations for 30,000+ users.
- Designed and implemented 20+ RESTful APIs consumed by web and mobile clients, reducing data access latency by 25%.
- Architected complex data models and workflows, supporting advanced reporting and business logic for multiple product lines.
- Ensured high performance and system reliability, achieving uptime of 99.95% through monitoring, profiling, and query optimization.
- Developed secure authentication and authorization layers, handling 50,000+ user accounts in compliance with industry standards.
- Collaborated with product, frontend, and DevOps teams across 6+ projects, delivering end-to-end solutions on schedule.
- Deployed and supported applications in cloud environments using Docker, Kubernetes, and CI/CD, reducing release cycle time by 30%.
- Actively participated in sprint planning, code reviews, and process improvements, contributing to 20% faster feature delivery and higher code quality.

### Backend Developer

A.P.R.O. Software

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

- Developed 12+ backend services and RESTful APIs using Python, Django, and FastAPI, supporting web and mobile applications for 25,000+ active users.
- Integrated 6+ third-party platforms and internal systems, automating workflows and reducing manual processing by 40%.
- Optimized database queries and implemented caching strategies, improving response times by 45% and increasing system throughput.
- Implemented robust authentication, authorization, and data protection, safeguarding over 60,000 user accounts in production.
- Collaborated with frontend, QA, and DevOps teams in Agile sprints and CI/CD pipelines, ensuring 95% of features delivered on schedule.
- Built production-ready backend systems with high availability and reliability, handling up to 600 concurrent requests per second.