

Michal Urban

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Summary

Full-Stack Developer with 8 years of coding experience and 1.5 years of commercial work in React, Next.js, and Django. At Backbone, I engineered production-grade features and optimized PostgreSQL architectures for high-traffic dashboards. I specialize in building scalable web applications with a focus on seamless integration between modern frontends and robust backends.

Backbone

Fullstack Software Developer (**React & TypeScript, Django**)

May 2023 – October 2024

- **Frontend Engineering:** Developed core **React/Next.js** features for high-stakes advertisement dashboards, implementing complex CRUD operations and advanced data filtering to streamline internal workflows.
- **API & Backend Design:** Architected scalable **REST APIs** in **Django** and designed optimized **PostgreSQL** relational models to support secure, data-heavy internal tools.
- **Web Application Development:** Engineered a comprehensive **grant management web app** from the ground up, leveraging a custom **Django API** and React to automate application tracking and approval processes.
- **System Optimization & Workflow:** Improved application performance and UI responsiveness while delivering high-quality code within a **GitLab-based CI/CD** environment and agile development cycle.

Weather Monitoring Platform – Full-Stack IoT System

SvelteKit, Django REST Framework, PostgreSQL, ESP32

- **End-to-End Development:** Engineered a complete IoT solution using **ESP32** microcontrollers and **DHT sensors** to capture and transmit real-time environmental data.
- **Secure Backend:** Architected a **Django** backend featuring **JWT authentication** for secure data transmission and structured **PostgreSQL** storage for sensor logs.
- **Data Visualization:** Developed a responsive **SvelteKit** dashboard with interactive geospatial mapping and real-time data visualization components.
- **System Logic:** Implemented server-side aggregation queries to process raw sensor data into meaningful historical trends and analytics.

Education & Certifications

- **Intelligent Technologies**, Secondary School of Electrical Engineering Zochova, Bratislava (2021–2025)
- **Electrical Technician (§ 21) & Cisco CCNA 2 & 3** (2023–2025)