


# MIHAELA ALEKSANDROVA

## Full Stack Software Engineer

Software engineer with expertise in full-stack development and IoT systems. Combines technical expertise with strong business acumen, enabling effective translation of complex requirements into user-focused and scalable solutions.

 Eindhoven, Netherlands

 06 38980292

 mihaela.aleksandrova00@gmail.com

 mihaelaaleks

 Mihaela Aleksandrova

### TECHNICAL SKILLS

- **Frontend:** React, Vue.js, TypeScript, JavaScript, Web Components, Lit Elements, SASS
- **Backend:** Python, Java, C#, PHP, Django, FastAPI, .NET, Laravel
- **DevOps & Tools:** Docker, Git, CI/CD, PostgreSQL, MongoDB, Jest, Playwright

### PROFESSIONAL EXPERIENCE

- 10/2024–Present **Software Engineer Intern** OpenRemote | Open Source IoT Platform
- Built custom Web Components for real-time notification management in Lit Elements
  - Architected and implemented enterprise notification system using TypeScript/Java microservices architecture.
  - Established comprehensive testing strategy with JUnit (backend, 80% coverage) and Playwright/Jest (frontend).
- 02/2023–09/2024 **Student Assistant** Fontys Hogeschool ICT
- Mentored 100+ students in Python and C# programming fundamentals.
  - Created comprehensive technical documentation for Python environment setup and best practices.
  - Facilitated Agile methodology adoption through hands-on workshops and code reviews.
- 02/2023–06/2023 **Software Engineer Intern** OpenRemote | Open Source IoT Platform
- Developed custom IoT data visualization widgets using TypeScript and Web Components, improving data readability for enterprise clients.
  - Enhanced developer experience by resolving critical rendering issues in frontend widget framework.
  - Streamlined development workflow by configuring and optimizing Gradle/Java build processes.

### NOTABLE PROJECTS

- Financial Data Pipeline | BDO** GitHub
- Built scalable financial data processing system using Python and Azure Cloud.
  - Integrated AI agents for automated data transformation and validation.
  - Led end-to-end architecture design and implementation within BDO's Azure environment, ensuring compliance with enterprise standards.
  - Established scalable deployment plan with proper security and monitoring considerations.
- Spotify Playlist Analyzer Tool** GitHub
- Developed full-stack application (Vue.js, FastAPI) with Spotify API integration.
  - Designed and implemented complete UX/UI workflow from user research to final implementation.
  - Built custom playlist classification system using Spotify's AI endpoints.
- Interactive IoT system for indoor plants** Project Video
- Designed and implemented full-stack IoT solution connecting voice assistant interface with ESP32 sensors.
  - Led 2-semester development of IoT ecosystem, scaling from basic sensor integration to comprehensive plant monitoring platform.
  - Created real-time Python dashboards for monitoring sensor inputs.
  - Architected and implemented data storage solution and extended functionality for long-term plant health tracking.

### EDUCATION

- 2021–2025 **BSc ICT and Software Engineering** Fontys Hogeschool ICT
- 2015–2020 **BSc International Marketing and Management** Fontys International Business School

**Languages:** English (Native), Bulgarian (Native), Dutch (B1) **Additional:** Digital Illustration, Agile Methodology, Project Management, Test-Driven Development, User Experience Design