Michał Nuszkiewicz

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LinkedIn, GitHub

Technologies

Languages	Frameworks	Databases	Cloud	Tools
Java, JavaScript, TypeScript	Spring Boot, React.js, Next.js	PostgreSQL, MySQL	AWS, Vercel	Git, Docker, Maven, Postman

Projects

Full-Stack Chat App - (Oct 2025 – Present)

Website, GitHub

Web app allowing users to create private chat rooms and exchange messages with low-latency WebSocket communication. Authentication is implemented using JWT stored in HTTP-only cookies. Messages are encrypted server-side with AES-256-GCM, keeping conversations private and protected. The system supports message history, secure session handling, and isolated private communication channels.

Key technologies

- Built with Java (Spring Boot), TypeScript, React, Next.js
- WebSockets for real-time messaging + REST endpoints for authentication and user flows
- PostgreSQL for persistent storage
- AWS hosting with basic NGINX configuration

Features

- Server-side AES-256-GCM encryption for messages
- JWT authentication stored in HTTP-only cookies
- Login and registration rate-limiting
- React Query caching and Zustand for client-side state
- Unit tests written with JUnit for core authentication and messaging logic

Project developed as part of independent programming practice.

Education

Zespół Szkół Technicznych w Kole - (2019–2024)

Field of Study: IT Technician

Completed qualifications:

- **INF.02** – Administration and maintenance of computer systems, peripheral devices, and local area networks.
- **INF.03** – Web development and database management.

Successfully passed the Polish Matura exam.