Zalán Farkas

Junior Software Developer

Contact me

📞 +36 30 621 0890

✉ farkaszalan2001@gmail.com

🐙 https://github.com/FarkasZalan

in linkedin.com/in/zalanfarkas

🌐 https://www.zalan-farkas.xyz/

📍 Szeged, Hungary

Education

BSc in Computer Science
University of Szeged
2021 - 2025

Languages

- Hungarian (native)
- English (B2)

Skills

- TypeScript
- JavaScript
- Node JS (Express)
- Rest API Development
- JWT
- JOI validation
- Session-based Auth
- OAuth
- Webhooks (Stripe)
- PostgreSQL
- PostgreSQL Triggers for Audit Logging
- MongoDB
- Firebase
- MySql
- Redis
- Docker
- Docker Compose
- Jest (unit tests)
- React (Vite)
- Tailwind CSS
- Angular
- HTML, CSS, Bootstrap
- Nodemailer
- Git, Jira, Bitbucket
- Java
- Spring Boot
- JPA/Hibernate
- Thymeleaf
- Linux
- Figma

Interests

- Gym
- Hiking
- Star Wars
- Exploring new cities
- Japanese culture

About me

I graduated with a degree in Computer Science from the University of Szeged in January 2025. Throughout my studies & internship, I actively worked on hobby projects to deepen my technical knowledge and explore emerging technologies. Currently, I work at IBM as a Junior Backend Developer, where I apply my skills in real-world projects and continue to grow as a software developer

Work Experience

IBM (July 2025 - Current)
Junior Backend Developer

Modularity Kft. (February 2024 - August 2024)
Software development intern

- During the internship I used the following: **Angular (TypeScript), Node JS, Firebase, Jira** and **Bitbucket**
- My main tasks included creating an administration page for a factory, which included managing users, machines, tasks, worksheets and statistics. Teamwork played an important role during the project

Webshop development (2022)

- During the development of the application, I used the following: **Wordpress, Woocommerce, Barion, CSS**
- **Communication with the client**

Projects

Novo - Task & Issue Tracker (2025)
https://github.com/FarkasZalan/Novo

- During the development of the application, I used the following: **React (Vite, TypeScript), Node JS (Express), PostgreSQL, Redis, Stripe, JWT, OAuth (Google, Github), JOI, Swagger, Multer, Cron, Jest (unit tests), Docker**
- Features:
  - **Authentication:** Email/password + Google/GitHub OAuth login (JWT-based), with email verification & reCAPTCHA for bot protection
  - **Project Management:** Unlimited projects/tasks with milestones, labels, subtasks; drag-and-drop Kanban board UI
  - **User Invitations:** Invite unregistered users by email; auto-activate and assign projects upon signup
  - **File Handling:** Upload/download files using Multer for both projects and tasks
  - **Payments:** Stripe subscription billing with webhooks, test card support, and automatic feature downgrades on expiry
  - **Notifications:** Scheduled email reminders via Cron (due tasks/milestones), and real-time email alerts for task status and comments (Nodemailer)
  - **Audit Logging:** Full audit trail using PostgreSQL triggers for all INSERT/UPDATE/DELETE events; filterable via backend API queries
  - **API & Testing:** Auto-generated API documentation with Swagger; backend unit tests with Jest covering logic and data validation
  - **Environment & Deployment:** Local development powered by Docker Compose (multi-container: backend, PostgreSQL, Redis, PgAdmin4)

Portfolio & Cyber Fish - Flappy Bird Clone (2025)
https://github.com/FarkasZalan/portfolio

- During the development of the application, I used the following: **React Vite (TypeScript), Node JS, Express JS, MongoDB**
- Features:
  - Interactive portfolio website with a built-in game called **Cyber Fish.**
  - **Cyber Fish Game:** A fun and challenging game where players control a fish to navigate through neon gates, with dynamic difficulty and high score tracking.
  - High scores are saved to a **MongoDB** database

GymBro - Webshop & Blog (2024)
https://github.com/FarkasZalan/GymBro

- During the development of the application, I used the following: **Angular (TypeScript), Firebase, Stripe, Nodemailer**
- Features:
  - Stripe integration for payment, real-time stock tracking, and detailed product management.
  - Used Firebase Cloud Functions for automated email notifications, secure password reset, and Stripe payment processing.
  - Blog with search, filtering, and related content suggestions.
  - Authentication with email verification, secure password reset, and user profile management.
  - Admin panel for managing products, blogs, and orders with automated notifications.
  - Responsive webshop with paginated navigation, product variations, and loyalty program.

VegAndFru – Grocery Shopping App (2023)
https://github.com/FarkasZalan/VegAndFru

- During the development of the application, I used the following: **Java, Android Studio, Firebase, Git**
- Features: User management, sending emails for password reset, notifications for successful orders, adding, editing, and deleting products (for sellers), placing orders (for buyers), and allowing both buyers and the respective seller to view the placed orders

Airbnb-Style Web App (2022)
https://github.com/FarkasZalan/Szallasok

- This application was developed as part of a group project, where I served as the **team leader**
- During the development of the application, we used the following: **Java Spring Boot, Hibernate, Docker, Maven, Thymeleaf** and **MySQL**
- Features: User management, email sending, and CRUD operations related to accommodations and bookings

Restaurant Food Ordering Web App (2022)
https://github.com/FarkasZalan/Pizzazo

- During the development of the application, I used the following: **Java Spring Boot, Hibernate, Docker, Maven, Thymeleaf** and **MySQL**
- Features: User management, email sending, and CRUD operations related to products and users