

ERMAL BAKI

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GitHub | LinkedIn | Portfolio

TECHNICAL SKILLS

Programming Languages: Java (Spring Boot), JavaScript, TypeScript, SQL, HTML5, CSS3

Frameworks & Libraries: React, Next.js, Angular, TailwindCSS, Three.js, WebGL

Tools & Developer Ecosystem: Git, Docker, Blender, GNU/Linux, Windows OS, REST APIs

Core Engineering Knowledge: Modular Backend Architecture, UI/UX Optimization, SEO Architecture

PROFESSIONAL & FREELANCE EXPERIENCE

IT Team Lead | BEST Skopje / JobFair

Student Volunteer

- Led a team of 6 student developers, organizing agile sprint planning, daily standups, and retrospectives to maintain a consistent and accelerated delivery cadence.
- Designed and implemented a modular backend architecture using **Spring Boot** and REST APIs, paired with a scalable fullstack platform using **Angular** on the frontend.
- Conducted technical code reviews and mentored teammates, significantly raising overall code quality and introducing interactive platform features that boosted user engagement.

Frontend Developer | EVBGlass

Freelance Contract

- Delivered a fully responsive production website for a commercial glass manufacturer using **React**, **Next.js**, and **TailwindCSS**, optimized for all device tiers and actively serving live customers.
- Engineered a custom multi-language translation system supporting Macedonian, English, and Albanian seamlessly without relying on any heavy external libraries.
- Collaborated directly with the client throughout the full product lifecycle, from initial requirements gathering to final production deployment.

Frontend Developer | EVBSystems

Freelance Contract

- Built a client-focused corporate website using **React**, **Next.js**, and **TailwindCSS**, prioritizing conversion-focused UX, professional branding, and service clarity.
- Designed and implemented an interactive product catalog of 100+ items with an optimized sorting system, enhancing client-side rendering and loading performance.
- Mapped an intuitive inquiry journey for prospective clients by building highly responsive layouts and modular, reusable UI components.
- Architected an **SEO-ready page structure** to maximize organic discoverability at launch, ensuring a scalable content architecture for future growth.

EDUCATION & ACADEMIC RESEARCH

University Ss. Cyril and Methodius

Bachelor of Science in Information Science (Software Engineering and IT)

- **Academic Research:** Co-authored a published research paper titled *"Robotic Strategies for Orbital Sustainability: A Comparative Analysis of Capture Techniques, Guidance Systems, and Servicing Integration"*, focusing on space debris removal, capture mechanisms, and satellite servicing integration.
- **Systems Analysis:** Evaluated cutting-edge orbital robotics systems to propose concrete algorithmic improvements to existing guidance and capture frameworks.
- **Robotics Prototype:** Built a physical, compact folding robot prototype designed for constrained environments using modular mechanical components and embedded systems.
- **Graphics Engineering:** Currently developing a browser-based 3D modeling engine for the Computer Animations course using **Three.js** and **WebGL**, targeting real-time scene editing and interactive viewport rendering.

SPOKEN LANGUAGES

Albanian: Native / Mother Tongue

English: C1 (Advanced Professional Operational Proficiency)

Macedonian: B2 (Upper-Intermediate)

German: A2 (Elementary)