MATINO MILIČEVIĆ

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SUMMARY

Software engineering graduate focused on building real-world systems, reusable libraries, and educational software. Experienced in full-stack development, API design, and graphics programming. Skilled in designing modular architectures, creating educational tools, and deploying production-ready applications. Passionate about writing clean, maintainable code and building interactive visualizations that enhance learning and understanding.

EDUCATION

University of Zagreb – Faculty of Electrical Engineering and Computing (FER)　　　**2022-2025**
- Baccalaureus (BSc) in Computing Engineering

PROJECTS

MatMat – Full-Stack Educational Platform
SvelteKit, Spring Boot, PostgreSQL, AWS
- Full-stack web application for Croatian State Matura math preparation
- Developed frontend and backend with REST APIs for authentication, task scheduling, progress tracking and task creation
- Implemented a spaced repetition algorithm to maximize learning retention
- Integrated AI assistant providing hints, explanations, and alternative examples
- Implemented Cloudflare Turnstile bot protection with server-side verification
- Deployed and maintained a live system
- Frontend: Repo │ Backend: Repo

MatAnim – Mathematical Animation Library
JavaScript, Canvas API
- Reusable library for mathematical visualizations with scene-based rendering, composable animation system, easing functions, and mathematical objects (vectors, coordinate systems, function plots)
- Designed a clean and extensible public API for educational use
- Published on npm
- Repo

Linear Algebra Playground
C++, OpenGL, GLFW, ImGui, GLM
- Interactive desktop application visualizing 3D linear transformations and vector cross products
- Real-time rendering using modern OpenGL and shader-based animations
- Modular, object-oriented architecture for vectors, matrices, and GUI components
- Repo

ADDITIONAL INFORMATION

- **Languages:** C++, Java, JavaScript, SQL, Python
- **Frontend:** Svelte, SvelteKit, React, Canvas API
- **Backend:** Spring Boot, REST APIs
- **Databases:** PostgreSQL
- **Graphics:** OpenGL, GLFW, ImGui, GLM
- **Tools:** Git, AWS
- **Speak:** English, Croatian