

Filip Grubeša

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EDUCATION

University of Zagreb, Faculty of Electrical Engineering and Computing <i>Bachelor's in Electrical Engineering and Computing</i>	Zagreb, Croatia Oct. 2026 – Sep. 2029
XV Gymnasium <i>STEM-focused high school program</i>	Zagreb, Croatia Sep. 2022 – May 2026
• GPA: 4.77/5.0; Mathematics: 4.77/5.0, Informatics: 5.0/5.0	

EXPERIENCE

IT Support Assistant - Svijet komunikacija d.o.o. <i>Svijet komunikacija d.o.o.</i>	Sep. 2026 – Present Zagreb, Croatia
• Performed on-site maintenance and functional testing of 20 PCs and 2 servers during an 8-hour intervention	
• Troubleshoot basic Internet, Ethernet and hardware connectivity issues at educational client sites	
• Assisted with preparation and deployment of new school laptops, including Windows installation and peripheral setup	
Technical Producer, MIOC Podcast <i>XV Gymnasium</i>	Nov. 2025 – Present Zagreb, Croatia
• Served as sole technical producer for 5 episodes, averaging 250 views per episode on YouTube	
• Operated three-camera setup and managed live audio/video mixing using OBS for 50+ minute recording sessions	
• Edited and post-produced video content using DaVinci Resolve, including audio leveling and color correction	
• Published and maintained content across YouTube, handling encoding, formatting, and platform-specific requirements	
Gaming Tournament Organizer, MIOC Gaming Tournament <i>XV Gymnasium</i>	Sep. 2023 – Apr. 2024 Zagreb, Croatia
• Organized and managed a tournament with over 80 participants, publishing event schedules and results	
• Streamed and commentated live videogame matches to 100+ concurrent viewers, engaging participants and spectators throughout the tournament	
• Set up and configured broadcasting, gameplay, and anti-cheat software to ensure fair play and reliable production during finals	

PROJECTS

Seplebis Python, FastAPI, PostgreSQL, JavaScript	July 2026 – Present
• Designed and implemented a backend REST API with 9 endpoints and 1,200+ lines of code using FastAPI, following client-server protocol design principles	
• Implemented JWT-based authentication with HttpOnly cookies and bcrypt password hashing for secure, anonymous user accounts	
• Implemented UUID primary keys and foreign-key constraints across 3 tables to ensure data integrity and referential consistency	
• Built paginated, filtered API endpoints using SQLAlchemy subqueries to support real-time content discovery	

ACHIEVEMENTS

- Ranked in the top 0.27% nationally in Informatics on the State Matura exam (Državna matura), scoring 94%
- Ranked in the top 1.2% nationally in Mathematics on the State Matura exam, scoring 88%

TECHNICAL SKILLS

Languages: Python, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: FastAPI
Developer Tools: Git, VS Code, Swagger UI/curl
Databases: PostgreSQL
Libraries: bcrypt, PyJWT, SQLAlchemy, python-dotenv
Cloud/Deployment: Render, Neon
Other: RESTful API design, JWT authentication, bcrypt password hashing, cookie-based sessions