Paweł Goliński

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Education

Wrocław University of Science and Technology — Wrocław, Poland
B.Eng. in Applied Computer Science — GPA: **4.67 / 5.0** (Year 2: **4.94 / 5.0**) — *Oct. 2024 – Expected Feb. 2028*

- **Relevant Coursework:** Data Structures & Algorithms (Java), Object-Oriented Programming (Java), Script Languages (Python), Database Systems, Computer Networks, Operating Systems, Linux Server Administration, Software Engineering, Programming Paradigms.

Technical Secondary School No. 1 — Ostrów Wielkopolski, Poland
IT Technician Diploma — Professional Exam Score: **99%** — *Sep. 2019 – Apr. 2024*

- Gained solid practical fundamentals in Linux/Windows administration, network setup (LAN), hardware, and web technologies.

Technical Skills

Languages: Python, C++, TypeScript, JavaScript, Java, SQL, HTML5/CSS3

Frameworks & Libraries: NestJS, Flask, HTMX, SQLAlchemy, Prisma ORM, pywebview, Next.js, React

Databases & Tools: PostgreSQL, MySQL, Oracle, Git, GitHub, Linux (Ubuntu/Debian), Swagger/OpenAPI, Postman

Concepts & Practices: OOP, Clean Code, Design Patterns, Data Structures, REST APIs, JWT & RBAC

Featured Projects

EatSafe – Food Safety GIS Warnings Monitor | *Python*, *Flask*, *HTMX*, *SQLAlchemy*, *Jinja2*, *pywebview*

- Initiated the project and led a 4-person team developing a hybrid desktop and web application.
- Implemented automated scraping and processing of GIS food safety alerts, along with an SMTP-based email notification system.
- Built dynamic user interfaces using HTMX and Bootstrap, integrating them with native desktop windows via pywebview.
- Designed and documented a RESTful API with CRUD operations, input validation, and database integration using SQLAlchemy ORM.

LcVRP Optimization Engine – Genetic Algorithm | *C++17/20*, *CMake*, *OOP*

- Developed a genetic algorithm solver for the NP-hard Limited Capacitated Vehicle Routing Problem (LcVRP) as part of a university competition.
- Applied Strategy and Observer design patterns to support interchangeable genetic operators and runtime monitoring.
- Optimized chromosome handling using C++ move semantics to reduce unnecessary memory copies and improve performance.
- Implemented a type-safe Result pattern (`CResult<T, E>`) for explicit error handling during file parsing.

Cocktails Management REST API | *TypeScript*, *NestJS*, *PostgreSQL*, *Prisma*, *Swagger*

- Developed a modular REST API for cocktail recipe and inventory management as part of a recruitment task for KN Solvro.
- Implemented JWT-based authentication and Role-Based Access Control (RBAC) using Passport and bcrypt for secure password hashing.
- Designed relational database schemas with PostgreSQL and Prisma ORM, supporting multi-criteria filtering and data integrity.
- Automated database migrations and seeding, and documented API endpoints using Swagger/OpenAPI.

Work Experience

Agritxt — Inchnagree, Co. Cork, Ireland
Web Development Intern — *Oct. 2023*

- Constructed responsive web user interfaces using HTML5, CSS3, and JavaScript for company app.
- Integrated UI modules with relational MySQL databases for secure credential validation and dynamic data display.
- Collaborated on-site within an international engineering team, communicating exclusively in English.

Netland Computers — Kalisz, Poland
IT Support Technician Intern — *Mar. 2023*

- Conducted diagnostics, hardware repairs, and routine maintenance on enterprise-grade PC workstations and peripherals.
- Deployed and configured client Windows/Linux desktop environments, software stacks, and local network (LAN) equipment.

Certifications, Languages & Interests

Certifications: **Cisco CCNA**: Introduction to Networks (ITN) & Switching, Routing, and Wireless Essentials (SRWE) – Cisco Networking Academy (Feb. 2026)

Languages: Polish (Native), English

Interests: Scouting, Team Sports (Football, Basketball), Cycling, Consumer Tech & PC Hardware