Krzysztof Błażejewski

krzysztof.blazejewski.portfolio@gmail.com | krzysztof-blazejewski | kblazejewski | Personal Site

Summary

Engineer with a background in control systems automation, now transitioning into software development. Throughout my career, I have gained valuable project management and teamwork skills, leading independent projects and collaborating with cross-functional teams. Currently pursuing a Master's degree in Computer Science with a specialization in Artificial Intelligence. Actively developing projects in Python, .NET, REST, gRPC, and eager to apply my skills in a software development role.

Education

Warsaw University of Technology — Warsaw, Poland
Master of Science (M.Sc.) in Computer Science — *Oct. 2024 – Present*
Faculty of Electronics and Information Technology, Specialization: Artificial Intelligence

Warsaw University of Technology — Warsaw, Poland
Bachelor of Engineering (B.Eng.) in Automation, Robotics, and Industrial Informatics — *Oct. 2020 – Jun. 2024*
Faculty of Mechatronics, Specialization: Industrial Informatics

Experience

Application Design Engineer — Dec. 2022 – Present
Schneider Electric — *Warsaw, Poland*

- Led development of key projects in the Oil & Gas sector at Orlen, including HVO, TGTU, and HOG plants. Developed ESD, BMS, ITCC applications, and SCADA systems
- Optimized HMIs and implemented automated testing procedures for controllers
- Participated in FAT and SAT, conducted on-site commissioning, and ensured integration of industrial systems
- Configured network components (switches, firewalls) and performed workstation hardening for security compliance (IEC 61511, IEC 61508)
- Led project execution and managed tasks independently while collaborating within teams

Student Intern — Jul. 2021 – Sep. 2021
Joint Institute for Nuclear Research — *Dubna, Russia*

- Integrated FRS-RACK®2 fire extinguishing panel with PLC via SNMP, developing a basic SCADA system for monitoring and control
- Gained hands-on experience with PLC programming, industrial communication, and automation in a research setting

Projects

Chess Game | *C++, Qt*

- Developed a 1vs1 chess game in C++ using Qt for the GUI, focusing on piece movement and game state management
- Implemented a move undo feature, allowing players to step back through previous moves
- Designed an interactive chessboard using Qt to allow easy piece movement and real-time updates
- Enhanced skills in C++ programming, GUI development, and basic game logic

Modbus Application | *.NET MAUI*

- Developed a cross-platform Modbus application using .NET MAUI for communication with Modbus devices via TCP
- Implemented Modbus register reading and writing (coils, holding registers) and real-time feedback for connection and operation status
- Used CommunityToolkit.Mvvm for implementing the MVVM pattern to separate concerns in the application

Technical Skills

Languages: Python, C / C++, C#, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, .NET, Django
Developer Tools: Git, ChatGPT, PyCharm, Rider, WebStorm
Libraries: Pandas, NumPy, Matplotlib
OS: Windows, Linux, MacOS

Achievements

PLC Programming Contest - 3P | *First Place*

- Won 1st place in Poland in the "Projekt 3P" PLC programming competition, developing a PLC application and a SCADA system in Node-RED.