

Rafał Sak

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GitHub: https://github.com/RafalSa

# Professional Summary

Ambitious and highly motivated junior developer with a background in automation, electronics, and maintenance. Currently pursuing a degree in programming with a strong interest in Data Science and software development using Python and C#. Experienced in working in industrial environments, problem-solving, and managing projects independently. Actively building technical skills through personal and open-source projects.

# Skills

* **Programming**: Python, C#, SQL (★★★☆☆)
* **Frameworks & Tools**: .NET (WinForms, WPF), ASP.NET, Git/GitHub (★★★☆☆)
* **Frontend (basic knowledge)**: HTML, CSS, JavaScript (★☆☆☆☆)
* **Data Science**: pandas, NumPy (★★☆☆☆)
* **APIs**: REST API integration, requests, JSON handling (★★☆☆☆)
* **Databases**: SQLite, PostgreSQL/MySQL (basics) (★★☆☆☆)
* **Security**: SHA256/SHA512 hashing, salting, password verification (★★☆☆☆)
* **Dev Tools**: Visual Studio, Jupyter Notebooks, VS Code (★★★☆☆)

# Education

WSB University Merito Chorzów  
Engineering in Programming (Oct 2023 – Present)

Nikola Tesla Mechanical and Electrical Technical School, Chorzów  
Specialization: Mechatronics (Sep 2017 – Apr 2021)

# Languages

- Polish: Native  
- English: Intermediate  
- German: Basic

# Projects

Explore selected projects on GitHub: https://github.com/RafalSa

- EuroExplorer (C#, WinForms, WebView2, SQLite, JSON): A travel assistant desktop app for exploring Europe. Features a secure login system using salted & hashed password verification, editable user profiles (name, password, profile picture), and an interactive world map with Google Maps integration. The application fetches live weather data, geolocation data (device-based), and includes booking functionality for the 5 most popular destinations per country via Booking.com or Airbnb. It also integrates a custom-made API to handle chat features, and stores persistent data using both JSON and SQLite.  
- Data Science Notebooks (Python): Machine learning experiments, data visualizations, and classical statistics examples using pandas, matplotlib, and scikit-learn.

# Interests

Automotive, Cryptocurrencies, Travel, Technology, Programming.