Michał Szopiński, BSc — Résumé

Address	Skierniewicka 34 Apt 204 01-230 Warsaw Poland
Phone	+48 573 740 159
Email	mszopinski@mssnt.pl

Language proficiency

Polish	Native
English	Near-native (C2)
German	Beginner (A1)

Programming languages

BACK-END

C++20 · C

FRONT-END

JavaScript · TypeScript · Python · Lua · HTML5 · CSS3 · SASS

Technologies

BACK-END

C++ STL · SQL · HTTP · OpenGL · AVR embedded

FRONT-END

React · Webpack · Electron · node.js

Tools

git · Mercurial · CMake · gdb · Visual Studio Code · KiCad · Fusion 360

Soft skills

Self-reliant · Quick learner · Teamwork · Friendly 🙂

Professional experience

softax

Sep 2021–Jul 2022

Frontend developer at Softax

Designed and developed new features in several banking and finance-related applications written in **React**. Developed a new application from scratch using **TypeScript**, **Redux** and **React Query**. Fixed bugs and added features to a legacy web app based on a proprietary framework for **Python**.

Jul 2022–Jan 2024

Backend developer at Softax

Developed and maintained **C++**-based **microservices** behind the company's web applications. **Worked in a small team** to implement major components of a new **online banking** service for a Polish state-owned bank. Designed **Oracle database schemas** and **SQL queries** for business data storage. Worked with **SOAP** and **REST** APIs on top of **HTTP** and **RabbitMQ** to exchange data between services. **Worked with the client** to formalize business requirements.

A sample of my **C++**/**OpenGL** work: *A data structure for managing OpenGL vertex buffers* (https://mssnt.pl/misc/Michal_Szopinski_Cpp_OpenGL_writeup.pdf)

Education

2018–2022

Warsaw University of Technology (Politechnika Warszawska)

Faculty of Electronics and Information Technology
Computer Science, Bachelor's degree

Bachelor's thesis: CNC plotter with client software

Designed and constructed a **CNC machine** whose firmware was written in **C**. Developed a client-facing application for the machine using **React** on **Electron**. Designed the mechanical components in **Autodesk Fusion 360** and **3D printed** them. With the help of my advisor, I designed the **electronic circuit** for the machine as well as its corresponding **printed circuit board**.

https://github.com/Lachcim/szopinski-cnc-diploma