



Bars Margetsch

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ABOUT ME

I am a fresh graduate full-stack engineer with a Bachelor's degree in software engineering from OAMK, looking for a challenging and exciting project to work on. I've been writing code as a hobby for over 8 years, and have extensive experience with C#.NET. I enjoy working with all sorts of technologies however, and I am very comfortable with both Web and Windows application development, and even the mix of the two! Furthermore, I can easily adapt to new technologies and environments, and I am always looking to learn and challenge myself with something new.

SKILLS

Software development skills

Languages:

C#, TypeScript, Python, PowerShell, MySQL, HTML & CSS.

Frameworks:

.NET (C# Console, WinForm, WebView2), Angular, React, NodeJS, ExpressJS.

Tools:

Visual Studio & Code, Git, npm, PowerShell, Postman.

Cloud Services:

Microsoft Azure (App-Service, MySQL, VMs), Google Firestore.

Game Engines:

Godot 4+, Unity.

EDUCATION AND TRAINING

08/2020 – 13/12/2024 Oulu, Finland

BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY Oulu University Of Applied Sciences

- Web frontend and backend development
- Server development (REST APIs, WebSockets, TCP/UDP sockets)
- Usage of various cloud services and hybrid technologies such as Microsoft Azure and AWS

Website <https://www.oamk.fi/en/> | **Thesis** Modern Hybrid Web-Based UI for Legacy and Native Windows Applications

Link <https://urn.fi/URN:NBN:fi:amk-2024090624824>

WORK EXPERIENCE

03/2023 – 03/2024 Oulu, Finland

SOFTWARE ENGINEER // INTERN KEYSIGHT NEMO WIRELESS NETWORK SOLUTIONS

- Developed cross-platform hybrid UI application for [Nemo Outdoor](#) using web technologies:
- UI web application was built with Angular 15, running in a C# WinForms Edge WebView2 host for native Windows API access
- Built from scratch, using Nemo Outdoor's existing RestAPI as the backend and leveraging Keysight's internal Alloy Component Library
- [Developed custom window-based layout system written in Angular](#) used to display multiple custom data views with live graphs in the same page
- Designed and developed a UI side Measurement Service using WebWorkers to process multiple simultaneous WebSockets from Outdoor, and distribute the incoming measurement data into graphs in a performant way
- Native Windows support via Edge WebView2 as a standalone application, cross-platform support via any web-browser (web application is hosted by Outdoor's own webserver in the latter case)
- Redesigned application flow and user experience, device management, and workspace system
- Developed custom build tooling that integrates into Outdoor's current build workflow via PowerShell scripts