



András Szalai

Full-Stack Developer

EMAIL: kapcsolat@szalkusz.hu

WEBSITE: www.szalkusz.com

PHONE: { PLEASE ASK IN PM }

LOCATION: BUDAPEST, HUNGARY

LINKEDIN: <https://www.linkedin.com/in/andr%C3%A1s-szalai-5a69aa13b/>

Education

2019- NOWADAYS **BSc: BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS**
Faculty of Electrical Engineering and Informatics
Computer Science Engineering

2014-2019 **High School: BMSZC Bláthy Ottó Titusz ICT School**
Network management, Cisco IOS, Oracle SQL, .Net C#, PHP

Main strengths

Since 2017 **Web frontend & backend**
Node.js, PHP, SQL, noSQL (mongoDB), CSS,
JS, TS, SASS, MS Azure Functions (C#, JS),
Ionic, Express, EJS, WordPress

Since 2018 **Cross-platform app development**
Java, JS, TS, C, C++, Qt5, Electron, .Net C#, OpenCV

Since 2013 **Windows & IoT development**
.Net & .Net Framework VB & C# (Forms, WPF, UWP, CLI), C, C++, Node.js

Since 2019 **iOS, Android and PowerPlatform development**
Ionic, Power Apps, Power Automate, Sharepoint, MS Azure Functions (C#, JS)

Professional experience

2020- NOWADAYS SELF-EMPLOYED

I mostly develop **rapid cloud apps** for SMEs. Usually these are **Power Apps** based systems with Sharepoint, **Power Automate** and **Azure** integration, but e.g. with an other freelancer we also developed a WooCommerce system for Szereldmagad to integrate some of their services into Totalcar's website. I also do rapid **website** development as well as design and create **IoT systems** from scratch like rotary and infra entrance gate controllers for the construction industry.

2019-2021 X-RAY MODALITY CONTROLLER DEVELOPER PASCAL TEAM KFT.

Mainly I developed an **X-ray modality controller** software written in C++ and Qt. I also made an alpha release of an **X-ray generator controller console** software which communicates with the main controller card. I also made a lot of documentation.

2019-2019 APPLICATION & AZURE DEVELOPER & SELF-EMPLOYED WINNING SOLUTIONS KFT.

At the beginning, at Winning Solution Kft. (Microsoft Silver Partner) I wrote **Power Apps** from detailed specs. After a while I made plans how to solve client's problems and started to design solutions mainly inside the M365 system. Here I also did web projects (based on PHP, SQL & JS) and a lot of frontend (Power Apps) and MS Flows (which become **Power Automate**). What you cannot do in Power Automate you can in Azure, so I started to write **Azure Functions** to support and extend the backend processes. At the same time I wrote websites and did the university stuffs.

2017-2019 SELF-EMPLOYED

I made several websites and services, mainly based on the PHP & SQL line. I also done some other works (e.g. writing financial Excel VBA macros) and taught the professional use of MS Excel for some of my acquaintances to pass their university exams.

2017-2017 PROGRAMMER, X-RAY MODALITY CONTROLLER TESTER PASCAL TEAM KFT.

As a summer job, I had several tasks like making unit test and reports about the modality controller, writing programs e.g. a Codonics CD/DVD writer robot log analysis software (VB Forms), X-RAY image processing algorithm tester client (C++, OpenCV, WPF, C#), modality controller environment installer (mostly WPF C#). I also took part of the modality controller frontend design, I've tested several ERPs (Odoo, AvERP, etc.) and participated in the selection process.

... -2017 SELF-EMPLOYED

Automated SEO optimization, Forms, WFP, UWP programs (C# & VB)

Other facts

„I believe that thanks to the diversity of my knowledge, I can optimally help you make your project succeed.“

- I usually use Bootstrap & NodeJS (w. Express etc.). in my web projects. Sometimes I use WordPress & WooCommerce if it's worth it.
- I have some basic knowledge of graphic programs (PS, C4D)
- I love Unix systems and Git
- I'm proficient in making various diagrams (statechart, flowchart, sequence diag. etc.)
- I love & always make Doxygen/JavaDoc inline comments
- Low-level stuff is also not unknown to me (e.g. assembly or FPGA „programming“ [Verilog - IEEE1364])
- I have done and am still doing interesting researches and applications in the field of brain research, quantum computing, blockchain-based systems and CT material structure analysis.

Spoken languages

Hungarian: Native speaker
English: Fluent – B2

About my journey in software engineering

I am András Szalai, currently student of the Computer Engineering Department at BME VIK. I fell in love with programming during my primary school years, when I tasted the freedom of telling anything a computer. In the beginning I mainly created Win Forms applications for Windows in Visual Basic .NET Framework, later I learned C# and WPF, then I also created UWP apps, like a smarthome controller for Raspberry Pi. In the secondary school we configured Cisco traffic management systems and did a lot of things I mentioned above. In the meantime I created several custom app installers for Windows systems, I made management apps, a log analyzer for Codonics CD/DVD writer robot, Excel macros for company statement maker. Later on I started to work with web systems, got to know some languages and environments like HTML, CSS, PHP, JavaScript, SQL, SASS, Bootstrap, Node.js and the more preferred environments, which I could use for example in the self-building algorithm of a travel agency's website with a few hundred pages from a database. In 2019, I mainly created target softwares for companies on the Microsoft Power Platform and wrote various MS Azure backend system interfaces, as well as created a REST API in PHP for Számlázz.hu. At BME, I created a cross-platform image effect demo tool in C, and integrated a mathematical sharpen algorithm that's about 2 times faster than the convolution matrix implementation. I've also created custom dynamic website optimization software, which maintained a regularly modified website in a third-party software to help the site rank better in Google search results. In 2020 I developed among others an X-ray modality controller (not from scratch, just made modifications) and an X-ray generator control panel software which greatly helped me to deepen my knowledge of Qt and C++. In that time I also did software documentation activities in relation to the above. In 2020, I started to develop Power Platform systems again in parallel, which mainly resulted in Power Apps systems for SMEs, supported by Sharepoint, Power Automate and MS Azure integration. I also done WordPress based WooCommerce systems (e.g. one proj. w. an other freelancer was Szereldmagad integration into Totalcar's TotalCheck system), iOS and Android app development in the Ionic framework & Flutter. I also did IoT development, e.g. a rotary and infra entrance gate controller development for the construction industry, which included the following tasks: complete software design and implementation of the local operational module of the access control system, development of the system network concept, design and creation of the hardware safety module with automated consumption measurement and correction capabilities.

In my university-related projects I've done and I'm still doing some interesting researches and applications in the field of brain research, quantum computing, blockchain-based systems and CT material structure analysis, which I think gives me an insight into things that I wouldn't get in an undergraduate course.