

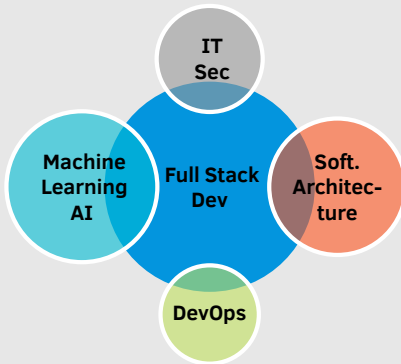
# LUKAS ALBER

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## Technical Skills



JS • Angular • React • CSS

C • C++

Python • LangChain • Pandas

Backend • NodeJs • Spring

Kotlin • Java • Mobile Dev

## Education

### BSc. Software Engineer & Management

Graz University of Technology  
2013 - 2017 | Austria

### MSc. (Dipl.-Ing.) Computer Science

Graduated with distinction

Specializations (lecture catalogs):

- Computational Intelligence (i.e. ML)
- Computer Graphics
- IT Security (Thesis)

Graz University of Technology  
2017 - 2020 | Austria

### Student Research Excellence Award

Institute of Applied Information Processing and Communications (IAIK)  
2017 & 2020 | Austria

### Languages

German, English, Italian (all fluent)

## Past Projects

Summer Sem. '16

Summers '16 & '17

Nov '17 - Aug '22

University (various pos. & roles) [IAIK – Graz University of Technology](#)

- Teaching Assistant for [Operating Systems \(C, C++\)](#): Starting from a basic OS skeleton (SWEB), students learn to implement system calls, processes, multithreading, memory management including swapping, security features like address space layout randomization and more.
- For the E-Government department EGIZ: Implementation of a multi-platform prototype app for signing PDF documents with qualified signatures (compliant with EU Regulation No 910/2014). A separate **Android** and **iOS** app, both written in **Xamarin** featuring a native look and feel, but relying on a common cross-platform signature endpoint library.
- Participating in E-Government EU Projects [Lightest](#) and [Kraken](#) as a software engineer (**Java** Front- and Backend).
- Contributions to internal projects of the SIC Department ([Security & Cryptography Libraries](#) written in **Java**).
- Contributions to projects of the [A-SIT](#) Department, i.e. a versatile set of e-Government libraries & applications (**Java & Kotlin** Spring, Mobile **App Dev**, fix Legacy Systems, occasional DevOps).
- Conducting research (find selected publications on my website) in the fields of TLS, Identity-based Signatures and Content Delivery Networks (CDNs) before expanding to Web3, Self Sovereign Identity, Distributed Ledgers, Edge Computing, AI, etc.

Oct '22 - Dec '23

**Full Stack Dev - Freelance** [Prime-Sign \(Cryptas GmbH\)](#)

- Maintaining and extending software regarding the qualified European digital signature for [PrimeSign](#) (**Java** Spring, GWT, **Angular**, Liquibase, IT-security & maintainability focus, scrum).

Mar-Jun '23  
Mar-Apr '24

**Full Stack Dev - Freelance** [Software Moling GmbH](#)

- Helping out in various software projects (Android native, Flutter, Java Spring, DevOps, Peer Reviewer).

Aug '23 - Mar '24

**Full Stack Dev - Freelance** [Easily \(ChargeandMore Technologies GmbH\)](#)

- Software solutions for EV-Charging for private and semi-public charging points: Extending, refactoring and improving the various software components from the frontend to the backend, while also consulting on the software and feature road map helping with prioritization, requirements and resource allocation (NodeJs, **Typescript**, React Native, Software Architecture and Planning, DevOps).

Jan '24 - present

**Avalon Intelligence - Co-Founder** [Avalon Intelligence](#)

- Applied AI software solutions for companies that want to automate and AI-ify their workflows, software or knowledge base (Python, LangChain, Pandas, **Typescript**, Java Spring, NodeJs, DevOps, Software Architecture and Planning, Peer Reviewer, company building and leading).