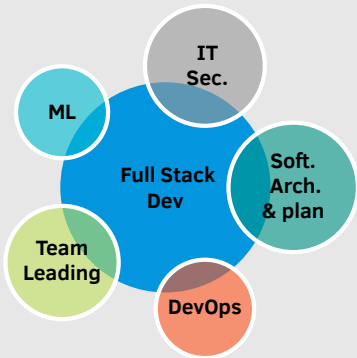# LUKAS ALBER

📱 +43 699 11237008

🌐 alber.contact

✉️ software@alber.contact

Technical Skills

VueJs • Angular • React • CSS

C • C++

Python • LangChain • Pandas

TypeScript • NodeJs • GraphQL

Kotlin • Java • Spring

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)

Summer Sem. '16
Summers '16 & '17
Nov '17 - Aug '22

University Employee (various pos. & roles) — IAIK – TU Graz

- Teaching Assistant for Operating Systems: Starting from a basic OS skeleton (SWEB), students learn to implement system calls, processes, multithreading, memory management including swapping, and sec features like address space layout randomization (*C, C++*).
- 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) (*Android, iOS, Xamarin, native look & feel foreach platform*).
- Participating in E-Government EU Projects Lightest and Kraken as a software engineer (*POJO Java*).
- 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 Dev, Legacy Systems, 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 around the qualified European digital signature (on PDF, XML, etc.) 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, DevOps, peer reviewing*).

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 and improving existing software (*React Native, Typescript, NodeJs, MERN-stack, software architecture and roadmap Planning, DevOps*).

Jan '24 - present

GenAI consulting – Co-Founder — Avalon Intelligence

- Generative AI consulting and software solution development for companies that want to automate their workflows or improve user experience with AI (*Python, LangChain, n8n, Typescript, Java Spring, NodeJs, DevOps, software architecture and planning, supervise offshore dev*).

Oct '24 - Dez '24

Interim Team Lead – Freelance — Pomo

- Stepped in to help them kickstart their in-house software development by forming a software team and establishing streamlined workflows. Digital pocket money banking for children and their parents. (*Fintech, Android Native, DevOps, tech supervision & planning, supervise offshore devs & designer*).

May '24 - Dec '25

Lead Engineer – Co-Founder — So-Strom

- Accompanied SaaS Platform for Energy Communities from 300 customers to 7k, planning scalability for way beyond 10k. Coordinated offshore-developer and Jira, Sprints, etc. Moved projects from JS to TS. Took design decisions for frontend and backend, laying emphasis on LEAN, DRY, KISS, etc. Took over implementation of critical features. (*Vue 3, Typescript, NodeJS, MEVN-stack, DevOps, software architecture and roadmap planning*).