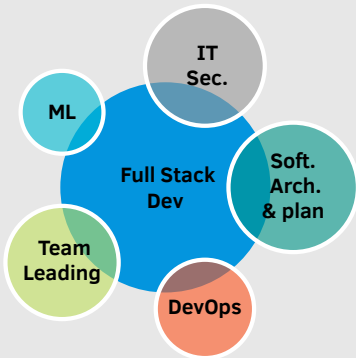# LUKAS ALBER

📱 +43 699 11237008

🌐 alber.contact

✉ software@alber.contact

Technical Skills ——

JS • 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)

Past

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) (*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 regarding 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   **Full Stack Dev – Co-Founder**   Avalon Intelligence

• Generative AI consulting and software solutions for companies that want to automate their workflows or improve knowledge sharing (*Python, LangChain, n8n, Typescript, Java Spring, NodeJs, DevOps, software architecture and planning, supervise offshore dev*).

Oct '24 - Dez'24   **Team Lead – Freelance**   Pomo

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

May '24 - present   **Lead Engineer – Co-Founder**   So-Strom

• SaaS Platform for Energy Communities. Share Energy easily with Friends. We provide simple administration and tax-compliant billing (*Vue 3, Typescript, NodeJS, MEVN-stack, DevOps, software architecture and roadmap planning, supervise offshore devs*).