

Florian Harwöck

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<https://harwoeck.com>
Picture: see website

Software Developer specialized on **Security** and **Scalability** of modern applications. **Badminton Coach** responsible for the Kids and Youth Team at ABV Wels. Passionate **Skier**. Enjoying weekends with **family** and **friends**.

EXPERIENCE

Catalysts, Linz — Software Engineering Intern

Jul 2018 - Aug 2018

Responsible for development of a Big Data project prototype with the requirement to query and analyse 400GB of customer data for hidden anomalies, ideal pricing and other metrics within low latencies.

Feb 2018 - Feb 2018

Implemented a Voice Recognition showcase project for the emerging technology department at Catalysts.

Fabasoft, Linz — Software Engineering Intern

Jul 2017 - Aug 2017

Development of core components inside Fabasoft's proprietary framework. Dealt with extensive accessibility and cross-browser support.

See <https://www.linkedin.com/in/harwoeck> for all my previous positions.

EDUCATION

Higher Technical College — Dep. Software Engineering Leonding — Ing.

2014 - 2019

Classes taken in: Software engineering, Applied Science (Math and Physics), Database and information Systems, Logic and Algorithms, Network and distributed systems, Project development and execution, Account and Business Management, Economy, and Law.

Voluntarily:

- Led a team that was responsible for the complete rebuild of the school's internal registration and statistics software used since Open Day 2017.
- Class representative 2016/17/18/19

PROJECTS

Diploma Thesis

Building a secure and scalable cryptocurrency exchange

Vikebot — Co-Founder and Project lead

Open Source platform where coders compete against others using their algorithmic skills. Developed since Sep 2017. <https://vikebot.com>

Open Source

Published multiple projects on GitHub: <https://github.com/harwoeck>

TECH SKILLS

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SOFT SKILLS

I am always eager to learn new things or teach others

I am not afraid of taking decisions and be responsible for them

I enjoy speaking to other people, pitch ideas or presenting achievements in front of a crowd

I love to network at meetups, conferences, etc.

PROFESSIONAL CERTIFICATIONS

English CEFR C1 (Grade A) at Cambridge English Certificate in ESOL International (Business Vantage)

AWARDS

3rd place at School Catalysts Coding Contest 2017

PUBLICATIONS

Password and Credential Management in 2018 - State of the art security for the most valuable secrets

Featured in Medium Cybersecurity publication. 12.000+ reads. 1.400+ positive feedbacks

LANGUAGES

German (Native)
English (full professional proficiency)

TECH SKILLS

Scale for estimation Statements

- 1 **Intro** - tried for a small project once
- 2 **Ok** - worked with it for at least one bigger project
- 3 **Advanced** - ability to make a lightning-talk about it
- 4 **Expert** - expertise in the subject & ability to help and teach others

LANGUAGES

Go (Expert)
Web technologies [HTML, JS/TS, CSS/SASS, Angular 2+] (Advanced)
C# (Ok), C/ C++ (Intro)
MySQL (Advanced), PostgreSQL (Ok), MSSQL (Intro)
Bash Scripts, Makefile, etc. (Ok)

API DESIGN

RESTful (HTTP+JSON) (Advanced)
GRPC + Protobuf (Ok)

EXTERNAL SOFTWARE I REGULARLY USE

MySQL/MariaDB (Advanced), CockroachDB (Advanced)
Nginx (Advanced), Envoy (Ok), Traefik (Intro)
Hashicorp Vault (Ok)

SYSTEM ARCHITECTURE

Monolith Backend (Advanced)
Microservice Backend (Scalability, High Availability, Distributed Coordination, Event Message Systems) (Advanced)
Containerization with Docker (Advanced)
Logging, Metrics, and distributed Tracing (Ok)

SECURITY & CRYPTOGRAPHY

HTTPS/TLS/SSH/etc. (Advanced)
Encryption (Transport, Storage, etc.) (Advanced)
Modern Attacks and their countermeasures (OWASP) (Advanced)
Industry best practices in Password Storage, Pseudonymization, Blind-Indexing, etc. (Advanced)
Cryptography (Understanding of algorithms & constructions, their scope of application, and their correct usage) (Advanced)
Cryptography (primitives & Mathematical fundamentals) (Ok)

DEPLOYMENT

Digital Ocean (Advanced)
Cloudflare (Advanced)
LetsEncrypt (Advanced)
Docker Compose/ Kubernetes (Ok)

CI/ CD

Travis (Advanced)
GitLab/Docker Container Registry (Ok)

VERSION CONTROL

Git (Advanced)
GitHub/ GitLab (Advanced)

IDE

VS Code (Advanced)
IntelliJ Family (Advanced)
Visual Studio (Ok)

OS

Linux (Advanced)
Windows (Ok)

PROJECT MANAGEMENT

Scrum (Advanced)
Kanban with Trello (Ok)
GitHub/ GitLab Issue System (Ok)

COMMUNICATION

Slack/ Skype/ etc.