Nicolas Huber

UNIVERSITY OF ZURICH

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https://hubernicolas.github.io/aspiring-code-alchemist/

EDUCATION

2022 – now	**University of Zurich** Msc Computer Science • Major Software Systems (90), Minor Data Science (30) • Expect completion date: 2024
2019 – 2022	**University of Zurich** BSc Computer Science • Major Software Systems (150), Minor Information Systems (30) - Magna Cum Laude • Bachelor Thesis: Design and Implementation of an MTD Strategy Selection Agent using IoT Platform Metrics (Grade: 5.5)
2019 –	**Langports Brisbane, Australia** • Cambridge Certificate in Advanced English Preparation Course (12 Weeks) • Advanced English Certificate (C1)
2016 – 2018	**ETH Zurich** BSc Electrical Engineering and Information Technology (without a diploma)

WORK EXPERIENCE

2021 – now	**Web Developer,** jkweb ag in Zurich • Creating web applications based on the Symfony framework • Maintenance and improvement of in-house ERP system • Leading course days in a vocational school for apprentice application developers at ICT Berufsbildungscenter AG • Testing iOS and Android apps as part of the app-team
2018 – 2019	**Picker,** Pistor AG in Rothenburg • Picking orders for goods • Order control
2018 – 2019	**Internship net electrics** Jungfraubahn AG in Interlaken • Assistance in transport and installation of a traction current rectifier and creation of the remote control of the rectifier

PROGRAMMING EXPERTISE

2021 – now	**Working experience at jkweb ag** • Requirement analysis and stakeholder interviews • Planning and conceptualisation of tools • Implementation with the Symfony Framework (PHP, HTML, CSS, JavaScript, Twig, Doctrine) • Testing applications and tools
2019 – now	**Projects at the University of Zurich** • Coding assignments in a group of three on software patterns in Java • Implementation of numerical methods in MATLAB • Designing and implementing a tower defense game with two other students in the software lab based on React and the Spring Framework (Java) • Data analysis group project about heart disease using machine learning (Python) • Reactive MTD Strategy Selection Agent for my bachelor thesis that deploys appropriate countermeasures in the event of a malware attack (Python, Linux Shell) • Visual interactive data analysis project using machine learning and visualization techniques for a group semester project (Project award: Impact on Research)
2016 – 2018	**Algorithms and Data Structures, modules at ETH Zurich** • Completion of the modules Informatik I/II • Implementation of a Raversi player (Othello) in Java using the Minimax algorithm

Leadership and Organisational Skills

2020 –
2021   **Tutor for Assessment Subject People-Oriented Computing (English) at the University of Zurich**
- Preparation and carrying out of practice lessons for approx. 230 students
- Correction and assessment of assignments and the assessment exam

2020 –   **Mentor for a group (approx. 15) of first-year students, Seminar at the University of Zurich**
- Organisation of various events for first-semester students
- Supervision and guidance of first-year students in the role of buddy/coach

Vountary Activities

2020 –
2022   **Actuary Kantonverband Luzerner Unihockey**
- Development and coordination of comprehensive floorball projects in Lucerne

2014 –
now   **Junior coach for floorball at Unihockey Luzern (ULU)**
- Development and coordination of comprehensive floorball projects in Lucerne
- Planning and leading training sessions with 9- to 14-year-old juniors
- Leading teams during the season
- Participating with teams in finals as coach and assistant coach
- Assistance in planning and conducting the annual training camp in Furtwangen (DE)
- Further training in the form of J&S courses (J+S-Leiter Unihockey und Kindersport)

Further Experience

2015 –
2016   **Military Service: Infantry "Durchdiener" Commando 14 (Aarau, Schwyz and Birmensdorf)**
- Additional training on surveillance equipment and ammunition with explosive effect
- Domestic operation in Geneva (embassy protection)
- Member of the marching group for the 4-day march in Nijmegen (NL)

Knowlege in Computer & IT

C & C++	Basic Skills
Python	Advanced Skills
MATLAB	Basic Skills
Java	Advanced Skills
HTML & CSS	Advanced Skills
PHP	Advanced Skills
Java Script	Advanced Skills
React	Basic Skills
Vue.js & Nuxt.js	Basic Skills
SQL	Advanced Skills
LaTeX	Advanced Skills
MS Office	Advanced Skills
Linux	Advanced Skills
Cyber Security	Basic Skills

Language Skills

German	Native Language
English	Fluent in business (C1)

Interests and Hobbies

Fitness	Floorball
Computer	IoT, Web Development, Data Visualization and Cyber Security
Psychology	Leaning and behavioural psychology