Nicolas Huber

UNIVERSITY OF ZURICH

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

EDUCATION

2022 - now   **University of Zurich** MSc UZH Informatics
- Current average: (5.125 / 6)
- Major Software Systems (90), Minor Data Science (30)
- Expect completion date: 2024

2019 - 2022   **University of Zurich** BSc UZH Informatics
- magna cum laude
- Major Software Systems (150), Minor Information Systems (30)
- Bachelor Thesis: Design and Implementation of an MTD Strategy Selection Agent using IoT Platform Metrics (Grade: 5.5 / 6)

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

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**
- Master Project: As part of the ComBaCaL project, we designed and implemented a Symfony-based admin panel integrated with a React-powered Progressive Web App (PWA) supply manager. This solution supports chronic care workers in Lesotho by streamlining their daily activities, ensuring efficient coordination and optimized ordering.
- Visual interactive data analysis project using machine learning and visualization techniques for a group semester project with Python (Flask) and React (Project award: Impact on Research)
- Reactive MTD Strategy Selection Agent for my bachelor thesis that deploys appropriate countermeasures in the event of a malware attack (Python, Linux, Shell)
- Data analysis group project about heart disease using machine learning (Python)
- Designing and implementing a tower defense game with two other students in the software lab based on React and the Spring Framework (Java)
- Implementation of numerical methods in MATLAB
- Coding assignments in a group of three on software patterns in Java

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)

Knowledge in Computer & IT

C & C++	Basic Skills
Python	Advanced Skills
MATLAB	Basic Skills
Java	Basic Skills
HTML & CSS	Advanced Skills
PHP	Advanced Skills
Java Script	Advanced Skills
React	Basic Skills
SQL	Advanced Skills
LaTeX	Advanced Skills
Linux	Advanced Skills
Cyber Security	Basic Skills

Language Skills

German	Native Language
English	Fluent in business (C1)

Interests and Hobbies

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