Nicolas Huber

University of Zurich

+41 79 768 19 47 | nicolas.huber2@uzh.ch

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

EDUCATION

2022 - University of Zurich Msc Computer Science

now

- Current average: (5.125 / 6)
- Major Software Systems (90), Minor Data Science (30)
- Expect completion date: 2024

2019 - University of Zurich BSc Computer Science

2022

- 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)

2016 - ETH Zurich BSc Electrical Engineering and Information Technology (without a diploma)

2018

Work Experience

2021 – Web Developer, jkweb ag in Zurich

now

- 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 - Working experience at jkweb ag

now

- 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 - Projects at the University of Zurich

now

- 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 community 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

2016 - Algorithms and Data Structures, modules at ETH Zurich

2018

- Completion of the modules Informatik I/II
- Implementation of a Raversi player (Othello) in Java using the Minimax algorithm

LEADERSHIP AND ORGANISATIONAL SKILLS

- 2020 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 - Actuary Kantonverband Luzerner Unihockey

• Development and coordination of comprehensive floorball projects in Lucerne

2014 - Junior coach for floorball at Unihockey Luzern (ULU)

now

2021

- \bullet 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 - Military Service: Infantry "Durchdiener" Commando 14 (Aarau, Schwyz and Birmensdorf)

2016

- 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 Basic Skills Java. HTML & CSS Advanced Skills PHP Advanced Skills Advanced Skills Java Script Basic Skills React Advanced Skills SQLIATEX. Advanced Skills MS Office Advanced Skills Linux Advanced Skills Basic Skills Cyber Security

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