

Amar Tabakovic

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| CONTACT INFORMATION | Private information available upon request | <i>E-mail:</i> tabakovicamar1@gmail.com <i>Website:</i> amartabakovic.ch |
| EDUCATION | Bern University of Applied Sciences , Biel/Bienne, Switzerland <i>Bachelor of Science, Computer Science</i> <ul style="list-style-type: none">• Specialization in <i>Computer Perception and Virtual Reality</i>• Bachelor thesis: <i>Implementation of a Real-time Streaming-based Terrain Level of Detail System</i> (in progress)• Project 2: <i>3D Terrain with Level of Detail</i> (grade: A)• GPA: 5.3 / 6.0 (unofficially calculated from ECTS grades) | 2021 – Expected 2024 |
| PROFESSIONAL EXPERIENCE | Swiss Bankers Association , Basel, Switzerland <i>ICT Intern</i> <ul style="list-style-type: none">• Developed a modern version of the <i>QI-Toolkit</i>, an internal web application for looking up U.S. double tax treaties, using Laravel and MySQL.• Participated in the cloud migration project of the Swiss Bankers Association.• Maintained the WordPress-based intranet site.• Conducted first and second-level support for internal and external clients.• Supported the ICT Team in various organizational and technical matters. | August 2020 – June 2021 |
| PERSONAL PROJECTS | JLisp (work in progress) Lisp interpreter in Java <ul style="list-style-type: none">• Developed an interpreter for a subset of the Scheme dialect of the Lisp programming language using Java.• Used a hand-written recursive descent parser for parsing source code. Graphs Graph algorithm visualizer in JavaScript <ul style="list-style-type: none">• Wrote a web-based graph algorithm visualizer in JavaScript using the Canvas API.• Implemented algorithms include depth-first search, breadth-first search and Dijkstra's algorithm.• Supports generation of randomized graphs and dynamic visualization speed.• Source code: github.com/amartabakovic/graphs, live demo: graphs.amartabakovic.ch Sorts Sorting algorithm visualizer in Vue <ul style="list-style-type: none">• Developed a web-based sorting algorithm visualizer in JavaScript using Vue.• Implemented algorithms include bubble sort, selection sort, insertion sort, mergesort, quicksort, and more.• Supports random shuffling of the input list and dynamic visualization speed.• Source code: github.com/amartabakovic/sorts, live demo: sorts.amartabakovic.ch | |
| EXTRACURRICULAR ACTIVITIES | BaselHack 2023 , Pratteln, Switzerland Developed with 5 teammates a prototype for a new social media platform named <i>ReLive</i> for easy and distractionless sharing of event pictures, including automated tagging of users on pictures. Technologies used: Spring Boot, SvelteKit, Flask, DeepFace, H2, Figma | October 2023 |
| | BärnHäckt 2023 , Bern, Switzerland Developed with 2 teammates a prototype for a secure anonymous messaging application for emotional first aid as part of the challenge <i>143 – NextGen Dargebotene Hand</i> . Technologies used: SvelteKit, Socket.IO, Prisma, PostgreSQL, Figma | August 2023 |

SKILLS

Software development: Java, C++, JavaScript, Python, C, PHP, MATLAB, Haskell
Frameworks and libraries: OpenGL, Maven, CMake, Node, Vue, Laravel
Databases: MySQL, PostgreSQL, DynamoDB, SQLite
Miscellaneous: HTML, CSS, Amazon Web Services, Git, Linux, Office 365, L^AT_EX

LANGUAGES

German (native), Bosnian (native), English (fluent), French (conversational, DELF B1)