Amar Tabakovic
Personal information upon request.

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Education

- **Bern University of Applied Sciences** — Biel/Bienne, Switzerland
  Bachelor of Science in Computer Science — September 2021 – July 2024
  - Specialization in *Computer Perception & Virtual Reality*
  - Bachelor thesis: *Implementation of a Real-time Streaming-based Terrain Level of Detail System* (grade: A)
  - Project 2: *3D Terrain with Level of Detail* (grade: A)
  - GPA: 5.35 / 6.0 (unofficially calculated from ECTS grades)

Professional Experience

- **Swiss Bankers Association** — Basel, Switzerland
  ICT Intern — August 2020 – June 2021
  - Developed a modern version of the *QI-Toolkit*, 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.

Personal Projects

- **Graphs**
  A graph algorithm visualizer in JavaScript
  - 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.
  - Live demo: graphs.amartabakovic.ch, source code: github.com/amartabakovic/graphs

- **Sorts**
  A sorting algorithm visualizer in Vue
  - 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.
  - Live demo: sorts.amartabakovic.ch, source code: github.com/amartabakovic/sorts

Skills

- **Programming languages**: C++, Java, Python, JavaScript, C, PHP, Matlab, Haskell
- **Frameworks & libraries**: OpenGL, Maven, CMake, Node.js, Vue, Laravel
- **Databases**: MySQL, PostgreSQL, DynamoDB, SQLite
- **Miscellaneous skills**: HTML, CSS, Amazon Web Services, Git, Linux, Office 365, LaTeX
- **Languages**: German (native), Serbo-Croatian (native), English (fluent), French (conversational, DELF B1)