BENEDICT ARMSTRONG

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Education

- **ETH Zürich**
  B.Sc. Computational Science and Engineering, Robotics track
  2021 —

- **Vienna University of Technology**
  B.Sc. Computer Science, Software & Information Engineering track
  2019 — 2021 (switch to ETH)

Experience

- **Coding Assistant for LehrFEM++ Finite Element Library**, Seminar for Applied Mathematics ETH Zürich
  Fall 2024

  Coding Assistant for c++ Finite Element Library "LehrFEM++" used for the course Numerical Methods for Partial Differential Equations taught by Prof. Dr. Ralf Hiptmair.

- **Freelance Software Engineer**, Armstrong Systems
  2022 —

  Founded Armstrong Systems, Software consulting for clients in Zürich. Full stack development of various projects including a web-based data management tool, visualization dashboards and large scale data ingestion pipelines.

- **Teaching Assistant for Software Engineering Fundamentals**, Department of Computer Science ETH Zürich
  Spring Semester 2024

  Teaching Assistant for the course Software Engineering Fundamentals

- **Head teaching assistant for Computer Science II**, Department of Computer Science ETH Zürich
  August 2023 — February 2024

  I was responsible for the organization of the teaching assistants and the exercise classes. In addition I worked closely with the lectures preparing exercise material and made sure the course runs smoothly.

- **Teaching assistant for Computer Science II**, Department of Computer Science ETH Zürich
  August 2022 — February 2023

Born and raised in Vienna, currently living in Zürich. In my free time, I like to code, tinker with electronics, design and make furniture, and generally enjoy all types of DIY/maker projects. I am also interested in FPV drones, IoT prototyping, 3D printing, tennis, cycling, triathlons, and of course, all things computer science.

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I taught one of the exercise classes and reviewed student submissions. The course provides the foundations for the design and analysis of algorithms. Classical problems ranging from sorting up to problems on graphs are used to discuss common data structures, algorithms and algorithm design paradigms.

- **Teaching assistant and Full Stack Developer**, Inter-university research group Industrial Software, Vienna University of Technology
  Spring 2021

  Together with a small team we developed security challenges for teams of students to compete in a Capture the Flag (CTF) competition. It was held as part of the course "Security for Systems Engineering" at TU Wien. In addition I supervised students during the competition and helped administering exams later in the semester.

- **Paramedic (civil-service)**, Samariterbund
  2018 — 2019

  Worked as a paramedic in Vienna as part of my civil service.

- **Summer internship**, Tecton Consult
  Summer 2018

  Summer internship at Tecton Consult, a civil engineering company in Vienna.

- **Various summer jobs**, Various
  Summers 2017-2021

  Various summer jobs in Vienna including working as a Postman, food delivery driver and math/CS tutor for high school students.

Languages and Technologies

- English, German
- Java, Python, C, C++, JavaScript, PHP, Angular, PyTorch, Docker, React, NextJS, Svelte(Kit), FastAPI, REST, HTML, CSS, SQL, Mongo, Postgres, Git, Scrum and Arduino/ESP8266/32 based Hardware development