

FRANÇOIS COSTA

Master student at ETHZ in computer science

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LINKS

[Linkedin](#), [Github](#)

PROFILE

I am a master's student in computer science at ETH Zürich, and I am passionate about computer science, artificial intelligence, and programming. My interests span software engineering, NLP, and computer vision.

I have experience as a freelancer, a member of the town council, and experience in a team as an employee in two different companies. These experiences gave me the opportunity to develop my soft skills in parallel to my computer science studies, which are focused on hard skills.

In my sparse time, I worked on different projects such as a small toy operating system, a graphics engine written using OpenGL and multiple deep learning projects.

EMPLOYMENT HISTORY

- ❖ **Machine learning engineer, BSI** Jun 2022 — Present
Zürich
 - Working on tickets containing customer-critical features on a solution containing multiple millions of lines of code.
 - Created BSI AI visualization, an intern tool written in ReactJS for visualizing our results and presenting them to the clients.
 - Worked on text classification task with state-of-the-art BERT methods for a big German company in the retail sector achieving 96% accuracy and 85% precision on 8 different categories.
 - Worked on a Computer Vision solution for a big German company in the retail sector using state of the art computer vision methods such as deep learning and transformers with old school methods (canny edge detection, hough transform,...)
- ❖ **Data scientist (part-time as freelancer), ReFluenced** Jun 2022 — Present
Zürich
 - Helping the startup ReFluenced to implement an AI strategy for their product.
 - Design & implementation of an online recommender system using bayesian statistics.
 - Integration of the solution in the system using docker and microservices.
- ❖ **Data engineer, IPT** Mar 2022 — May 2022
Bern
 - Design and implementation of a data mining solution to analyze up to several billion entries in a database and cache the relevant information.
 - Creation of the backend using Golang
 - Creation of a VS Code extension using typescript
 - Creation of high performance algorithms and optimizations of SQL Queries
- ❖ **Founder and CEO, François Costa solutions informatiques** Jul 2021 — Feb 2022
La Tour-de-Peilz
 - Creation of a mini IT company next to my studies in order to have my first professional experience and to improve my communication skills.
 - Programming of a cross-platform application with IOS and Android
 - Implementation of an eCommerce solution
 - Creation of multiple websites

- Use of typescript, ionic, PHP, angular, SQL, and NoSQL databases.

❖ Teaching assistant, ETHZ Sep 2020 — Aug 2021 Zurich

Assistant for Professor Thomas Gross (software systems lab) and Professor Onur Mutlu (computer architecture lab).

- Correction of series for students on a weekly basis
- Weekly teaching in the field of software engineering and computer architecture

❖ Internship in IT departement, Nestlé Jun 2017 — Jul 2017 Vevey

Internship in the headquarters IT department at Nestlé.

- IT support and problem-solving
- Testing of various software

EDUCATION

❖ ETHZ Mar 2022 — Present Zurich

Master in computer science

Current GPA: 5.5 / 6

❖ ETHZ Sep 2019 — Mar 2022 Zurich

Bachelor in computer science

Graduated in 5 semesters instead of 6

❖ Gymnase de Burier Aug 2016 — Aug 2019 La Tour-de-Peilz

Gymnase

Exchange in Munich, Germany for one year

SKILLS

Natural language processing

Computer vision

Deep learning (pytorch & tensorflow)

Java

C,C++

Python

Golang

Docker

Databases (mySQL, mongoDB,
clickhouse)

Apache Kafka

Javascript (angularJS, reactJS)

Linux

Software architecture

Agile Scrum

Git

EXTRA-CURRICULAR ACTIVITIES

❖ Member of the town council Jun 2020 — Present La Tour-de-Peilz

LANGUAGES

French *Native speaker*

German *C2*

English *C1*

Italian *C1*

Swiss german *Very good command*