

Luca Costa

{Senior Backend Engineer}



About me: Swiss backend software engineer with 6 years experience developing and deploying high quality software solutions using DevOps practices for international VC startups and in regulated markets like healthcare. Master's in Computer Science, creative, reliable, with a product oriented mentality. Proficient in English, Italian mother tongue with basic German and French. Continuous learner and person of integrity, balancing work with physical activity, travel & nature.

If you want to connect with me, you can reach me at hello@lucacosta.dev, or find me on [Linkedin](#) and [Github](#) or my [personal website](http://lucacosta.dev) lucacosta.dev.

EDUCATION

2016 – SEPTEMBER 2018

University of Italian Switzerland (USI), Lugano

Master of Science in Informatics

[8.36/10]

Specialization: Information Systems. With the first year in the Cyber-Physical and Embedded Systems course.

Coauthored two publications post-graduation based on master thesis's research:

- 2020, A Tool for Conducting User Studies on Mobile Devices, CHIIR '20. Code on Github
- 2019, Understanding Mobile Search Task Relevance and User Behaviour in Context, CHIIR '19

2011 – FEBRUARY 2015

University of Milano-Bicocca, Milan

Bachelor in Computer Science [95/110]

2007 – 2011

Highschool of Mendrisio, Mendrisio

Swiss Matura (Economics & Law)

EXPERTISE

LANGUAGES **Main:** C# (.Net Core), Node.js (Nestjs), Python, JavaScript, Typescript, Java, SQL. **Others:** Python Data Analysis Stack

SOFTWARE & SKILLS Git, Excel, API development, integration and Back-end, Web Development (React), NoSQL databases (MongoDB), Linux & Open Source, Cloud providers and devops (AWS, Azure), UX research, Agile methodologies

OPERATING SYSTEMS GNU/Linux (Advanced), Windows, MacOS

WORK EXPERIENCE

OCTOBER 2023 – NOVEMBER 2023 (CLOSED)

Sparrow Ventures, Migros, Zürich (Ventures)

Senior Software Engineer

Led automation of startup scouting processes with **Large Language Models, Langchain, RAG** and **Python** to discover and evaluate new high-potential signals.

DECEMBER 2022 – MAY 2023 (CLOSED)

Tessera, Paradigm Series A, Remote US (NFT)

Senior Backend Engineer

Worked on the Typescript backend (**Nest.js/MySQL**) of Tessera. Built NFTs importing pipeline that allowed a successful launch of the Escher NFT marketplace. Led development of the Admin Panel feature that enabled operations to manage thousands fine art assets weekly. Coordinated with Data Engineering to further develop the internal **Blockchain Indexer** using **Ethereum EVM** and **Airflow** in **Python**.

OCTOBER 2018 – NOVEMBER 2022

Medicalchain, Remote UK (Blockchain, Healthcare)

Senior Backend Engineer

Worked on the v1 MyClinic Android app in **Kotlin**. Led the development of the v2 mobile backend using **Agile, C#, MongoDB, REST, Swagger, gRPC**. Principal developer of cutting-edge features including the clinic form engine with medical codes (**React, SNOMED-CT**), crypto payments, scheduling, multi-participant **WebRTC** video consultation with E2E Cypress tests. Improved CI/CD with **Github Actions**, testing and cost reduction on **AWS** using **Docker, Linux, Lambda**. Built fundamentals Nest.js microservices for encrypted storage of patient data (**Kafka**) and **EMIS/TTP** health record integration.

JULY 2017 – SUMMER INTERNSHIP

Seeyourbox, Zürich (IOT Logistic)

IOT Software Developer

Developed a proof of concept for a wireless sensor network on a tight deadline adding new BLE sensors to the core product (**Arduino, SoC programming, and Bluetooth Low Energy**).

FEBRUARY 2016 – APRIL 2016

Inpeco, Lugano (Healthcare)

Junior Software Engineer

Worked on the **Python** backend for workload simulation and remote machine monitoring in laboratory automation. Designed a new 3D web synoptic panel (**React, Three.js, Flask, WebSocket**) to replace the legacy desktop frontend (**Blender**).

FEBRUARY 2015 – AUGUST 2015

DXT Commodities, Lugano (Finance)

Junior Trading DevOps

Supported traders' successful operations and customized mission-critical software, including Allegro ETRM in **C#**. Implemented new trading processes with **PL/SQL** procedures in an Oracle Database v11.