Edoardo Cecchinato

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SKILLS

Programming: C/C++, Python, Java, JavaScript, SQL.

Other: Git/GitHub, Flask, PostgreSQL, SQLite, SQLAlchemy, ReactJS, HTML, CSS/Bootstrap, Doxygen, Javadoc, Linux, Windows, VS Code, JetBrains Editors, Axure.

EDUCATION

Ca' Foscari University of Venice | *Bachelor of Computer Science* *Venice, Italy* | **09.2020 – Present**

GPA: 3.6/4.0 – Expected Graduation: 2023

Relevant Courses: Algorithms and Data Structures, Database Systems, Object-Oriented Programming (Java & C++), Operating Systems, Computer Networks, C++ Programming.

PROJECTS

Music WebApp (GitHub) | *University project*

- Web app having music artists, which can upload songs, albums…, and listeners, which can like artists' items.
- Lead a team of 3: organized meetings, delegated tasks, helped teammates… leading to a final grade of 100%.
- Project for the DB course: we used Python, Flask, SQLAlchemy, and PostgreSQL for the backend and we used HTML/CSS/JavaScript, Bootstrap, and Jinja for the frontend. I also familiarized myself with PyCharm IDE.
- Learned PostgreSQL in depth: defining schema, defining triggers, defining roles, and implementing security.
- Learned Flask & SQLAlchemy in depth: routes, login, forms, security, bcrypt, engine, session, tables.

Image Processing Library | *University project*

- Image processing library written in C++ in a group of 3 for my C++ programming University course.
- Implemented a class Tensor (3D matrix for image pixels) with some C++ operators like +, -, =, /, *, ==…
- Implemented a class containing functions for images (Tensor): image brightening, grayscale, image blending, Andy Warhol effect, green-screen (chroma-key), image equalizer, convolution techniques (sharpen, edge, emboss, and smoothing filters).
- Familiarized with C++ Object Oriented programming, memory management, image processing, linear algebra, Makefile, Doxygen, Linux, Valgrind, Clion IDE.

CryptoStats WebApp (Website) (GitHub) | *Personal project*

- Frontend web app made with ReactJS, CSS, and CoinGeckoAPI displaying a list of top cryptocurrencies and coins' information. Deployed on Google Firebase.
- Familiarized myself with React components, Hooks (State/Effect), JSX, Chart.js, CSS modules, and APIs.

Algorithms Visualizer (GitHub) | *Personal project*

- Desktop app, made with Python and TKinter, that shows how some algorithms works in runtime.
- Familiarized myself with Python, and TKinter and implemented algorithms studied at my Data Structures and Algorithms University course.

Other: my portfolio website (link), some university class materials, and some contributions are visible on GitHub.

INTERESTS

Reading, Competitive Programming, Chess, Jogging/Hiking.