

# FRANCISCO CARRIÇO

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## Education

### Delft University of Technology

2024-2027

BSc. Computer Science and Engineering, GPA 9.0

Delft, The Netherlands

## Courses

- Algorithms & Data Structures
- Automata, Computability and Complexity
- Software Quality & Engineering
- Operating Systems
- Computer Networks
- Machine Learning
- Embedded Software
- Web & Database Technology
- Computer Organization

## Experience

### TU Delft Faculty of EEMCS

September 2025 - January 2026

Student Mentor

Delft, The Netherlands

- Supporting first-year CSE students through their first months of university.
- Leading weekly mentoring sessions with group of 20 students where various topics are discussed (study methods, dealing with stress, extracurriculars, discipline).
- Providing one-on-one sessions to students who wish to further talk about their studies.

### TU Delft Faculty of EEMCS

November 2025 - Present

Teaching Assistant

Delft, The Netherlands

- Joined multiple courses as a teaching assistant, helping the staff with course organization, grading and teaching.
- Y2Q2: CSEP, a project course where I guided groups, and WDT, a course about databases and web technologies.
- Y2Q3: IDM, a course about organizing and managing data for efficient storage

## Projects

### Custom Ray Tracer | *OpenGL, C++*

January 2026

- Built a ray-tracer from scratch in C++.
- Support for diffuse and specular reflections using the Monte Carlo method.
- Implemented frame accumulation and movement with OpenGL.
- Made use of vertex and fragment shaders to program GPU rendering pipelines.

### CoSup Website | *Next.js, React, Tailwind*

April 2023 - August 2024

- Developed the website for my high school's student council (CoSup).
- Full-stack project using React with Next.js.
- Created custom website design from scratch using Tailwind CSS.
- Deployed a CI/CD pipeline using Github Actions, Docker containers and a self-configured VPS.

### CoSup Box Office | *Full-Stack Development, Stripe, UI Design*

October 2023 - August 2024

- Within the above website is a full-fledged ticketing system to sell council-organized event/party tickets to students.
- Created organizer dashboard to allow full customization of various events - brand, pricing per cohort, stocks, waitlist, age verification, parental consent forms.
- Integrated with Stripe to allow for various payment methods.

### Custom Programming Language | *Java*

June 2020

- Designed an interpreter for a custom programming language in Java.
- Incorporated concepts of linting, parsing and executing, which together form the foundation of any interpreted programming language.

## Technical Skills

**Languages:** TypeScript, Java, HTML/CSS, SQL, Python

**Developer Tools:** VS Code, IntelliJ

**Technologies/Frameworks:** React+Next, Tailwind, Linux, GitHub, JUnit

## Extracurricular

### Student Council

2022-2024

IT & PR Departments

European School of Brussels II

- Led IT department of Student Council in the latter year, further developing on aforementioned systems and representing the students in high-stakes meetings with school stakeholders.
- Developed people skills through leadership role and the encouraged collaboration environment.
- Improved graphic design skills by working in marketing-related activities for PR.