



CARINA COSTACHE

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Education

Radboud University

Bachelor of Science in Computing Science

Sep. 2021 – July 2025

Nijmegen, Netherlands

- Specialization in Software Science and Data Science
- Minor in Business Administration in Computing Science

Relevant Coursework

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|----------------------------------|-------------------------|--------------------------|---------------------------|
| • Algorithms and Data Structures | • Software Verification | • Functional Programming | • Programming |
| • Networks and Security | • Software Engineering | • Imperative Programming | • Security |
| | • New Devices Lab | • Object-oriented | • Semantics and Rewriting |

Experience

Software Engineering Course

Part of Front-End and Back-end team

January 2025 – July 2025

Radboud University, Nijmegen

- Developing and maintaining frontend components for a web application as part of a university software engineering course.
- Collaborating with a Scrum-based team to deliver high-quality UI elements using Tailwind CSS and modern frontend frameworks.
- Engaging in agile development practices, including sprint planning, daily stand-ups, and code reviews on GitHub
- Designing and building API endpoints that connect the React front end with back-end services.
- Creating and maintaining database models, including schema design and migrations, to support new product features.

Front-End Engineering Course

Student

November 2024 – Present

Codecademy

- Learning modern frontend development techniques, including React, JavaScript, and CSS frameworks.
- Gaining hands-on experience with version control (Git/GitHub) and best practices for UI/UX design.
- Completing real-world projects that simulate industry-level frontend development workflows.

Projects

Personal Portfolio Website | *TypeScript, React, Tailwind CSS, Vite*

March 2025 – Present

- Designed and built a responsive, multi-page portfolio site to showcase academic and personal work, using React and TypeScript.
- Used Tailwind CSS as it is quicker and keeps the markup tidy.

Bachelor Thesis – Spatiotemporal Influenza Prediction in Europe | *Python*

Sept 2024 – July 2025

- Designed my BSc thesis on *Spatiotemporal Influenza Prediction in Europe*, focusing on Germany and the Netherlands.
- Built a tidy Python workflow that cleans weekly FluNet data, adds population features, and feeds them into forecasting models.
- Compared a seasonal **SARIMA** baseline with an **LSTM** network.

Technical Skills

Languages: C++, Java, Python, Scala, Haskell, Tailwind CSS, HTML/CSS, JavaScript/TypeScript, SQL

Developer Tools: VS Code, Eclipse, Google Chrome Dev

Technologies/Frameworks: GitHub, Docker, React, Vue