



# RADU NICOLAE

<https://radu-nicolae.com>

## CONTACT INFORMATION

### Mail:

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**Github:** [Radu-Nicolae](#)

**Amsterdam, Netherlands**

## DIGITAL SKILLS

### Advanced:

Python	C
Typescript	Java
Javascript	HTML
C++	CSS
PostgreSQL	GIT

### Good command:

Tensorflow	React
NumPy	PHP
Pandas	Assembly
Keras	Webflow
Matplotlib	SEO
Stawberry.py	Linux/Debian
GraphQL	LaTeX



## WORK EXPERIENCE

### Vrije Universiteit Amsterdam

#### Teaching Assistant | Aug 2023 - ongoing

- Data Structures and Algorithms for AI

#### Course Coordinator | May 2023 - ongoing

- Computer Programming (May 2023 - Dec 2023)
- Computational Thinking for Coders (May 2023 - Dec 2023)
- Computer Organization (Aug 2023 - Apr 2023)

#### Student Ambassador | Oct 2022 - ongoing

Giving future Computer Science students an overall perspective of what this domain involves. It requires excellent organization, communication, and presentation skills and also good teamwork abilities.

### Student Researcher

#### @Large Research x VU Amsterdam | May 2023 - ongoing

Scientific Research towards massiving computer systems, making (distributed) computer systems scalable, reliable, and performant, with a focus on the datacenter industry - <https://atlarge-research.com/>

### Programming Trainer

#### Logiscool | Mar 2023 - ongoing

Empowering future programmers, aged 8-14, with the fundamentals of software development and algorithmic thinking, fostering a solution-oriented mindset that prepares them for success in the computer science industry.

### Frontend and Healthcare Data Science Internship

#### Oxaigen | Nov 2022 - May 2023

Oxaigen is a company working towards revolutionizing healthcare and ICU activities using AI. I have developed:

- medical apps using React, GraphQL, Strawberry, Python, PostgreSQL
- API endpoints using Python and Strawberry
- data charts using D3js and Javascript
- [oxaigen.com](https://oxaigen.com) website using Webflow and Relume, including animations and responsiveness, SEO optimisation

### Trainer Internship

#### Jademy - Oracle Silver Partner | May 2020 - Oct 2021

- created and implemented a 25 module front-end course
- participated as a trainer assistant at Java Courses

### Front-End Developer

- <https://www.radu-nicolae.com> | Mar 2020 - ongoing
- <https://www.oxaigen.com> | Oct 2022 - May 2023
- <https://www.revista-cava.ro> | Oct 2019 - May 2023
- <https://www.topthewhole.com> | Jan 2021 - Jan 2022
- <https://www.viviriafestival.ro> | Aug 2021 - Sep 2021
- <https://www.happycamps.club> | Mar 2020 - Jun 2020
- <https://www.interactbucuresti.ro> | Feb 2020 - Jul 2021

## ACADEMIC BACKGROUND

### Honours Bachelor's Computer Science

#### Vrije Universiteit Amsterdam | Sep 2022 - ongoing

Vrije Universiteit Amsterdam is a leading university, ranked 115th worldwide by the prestigious Times Higher Education 2022. I am in the 2nd year of the Computer Science BSc, currently with a GPA of 8.8 and Cum laude. Conducting research with @Large and taking extra courses, part of the Honours Programme, split between Vrije Universiteit Amsterdam and Universiteit van Amsterdam.

## Highschool - Mathematics & Informatics Profile

**Sfântul Sava National College | Sep 2018 - Jun 2022**

Baccalaureate Exam at Mathematics, Physics, Romanian, Digital Competences and English and obtained the average mark of 9.48.

## RELEVANT COURSES

### Deep Learning Specialization

**Stanford University x DeepLearningAI x Coursera**

Completed an intensive 5-course deep learning specialization online with a grade of **93%**, over 17 weeks under the guidance of **Dr. Andrew Ng**, co-founder of Coursera and DeepLearning.AI.

Through **25 practical projects**, I honed my skills in Python, TensorFlow, Numpy, Pandas, Keras, and Matplotlib, and delved into Neural Networks, CNNs, RNNs, Hyperparameter Tuning, Regularization, Sequence Models, and other advanced aspects of ML/DL.

Engaging with real-world cases like speech recognition and music synthesis has expanded my understanding of AI and deepened my expertise in Deep Learning principles, algorithms, optimization methods, and regularization techniques.

### Google - Machine Learning Crash Course (status: ongoing)

Machine learning course offered by Google with a focus on **TensorFlow APIs**. Learning basic ML thinking from Google researchers, with programming exercises and real world case studies.

### Harvard CS50 - Web Programming with Python and JavaScript

Developing web applications, learning indispensable principles and techniques, user Interfaces, testing, database management, scalability and version control

### Pre-University Calculus - TU Delft - final exam grade: 91%

### Java Bootcamp - Jademy - Oracle Silver Partner

Graduated with the final grade of excellent and gained deep knowledge of Object-Oriented Programming, Coding Style principles, Data Structures, Collections, Exceptions, JDBC, MySQL, Multithreading, Design Patterns, Functional Programming, Java FX

### Scholastic Assessment Test (SAT) | top 9%

## ROBOTICS

### National Robotics Team Member

**Autovortex | Oct 2019 - Jun 2021**

We participated in one of the biggest international contests of robotics: FIRST Tech Challenge. Earned awards:

- **1st place** FIRST Tech Challenge Russia 2021 - April 2021
- **1st place** FIRST Tech Challenge Russia 2020 - February 2020
- **1st place** FIRST Tech Challenge Russia 2019 - December 2019

### Robotics Team Leader

**Gamma Robotics | Oct 2018 - Oct 2019**

I was selected as team leader and driver during the season. Passed the regional stage and we competed against the best robotics teams in Romania in the FIRST Tech Challenge national stage

## VOLUNTEERING

### Red Cross Volunteering | 2020

## LANGUAGE SKILLS

**English: C1 - IELTS (Overall 7.5)**

**Deutsch: A2**

## ORGANIZATIONAL SKILLS

Coordinating university courses and teaching assistants, university teams, robotics teams and many other people helped me acquire indispensable abilities, which were the key to success:

- Leadership
- Logical reasoning
- Attention to detail
- Self-management
- Keeping deadlines

## COMMUNICATION SKILLS

Being the leader or a member of several teams improved my communication abilities, such as:

- Clarity
- Planning
- Open-mindedness
- Confidence
- Optimism

