

# Valentin-Ioan Vintilă

Dedicated, curious, creative and hard-working computer science student with solid experience in modern, object-oriented C++, low-level C and Rust, knowledgeable in advanced algorithms and data structures, seeking a competitive and passionate team to be a part of as a software developer.

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## EDUCATION

- **2021 - present** Pursuing a **Bachelor of Science Degree** in Computer Science, Faculty of Automatic Control and Computer Science, University Politehnica of Bucharest  
Expected 2025
- **2017 - 2021** **High school diploma**, "Cantemir-Vodă" National College, Bucharest

## HONOURS AND AWARDS

- **EESTEC (10<sup>th</sup> ed.)** 2<sup>nd</sup> place (Side Challenge)
- **EESTEC (10<sup>th</sup> ed.)** Qualification (Main Challenge)
- **Baliza 2022** 1<sup>st</sup> place (written in C)
- **ONI 2021** Participation
- **ONI 2020** Qualification
- **ONI 2019** Bronze medal
- **OJI 2021** 2<sup>nd</sup> place
- **OJI 2020** 1<sup>st</sup> place
- **MateInfoUB 2021** First Prize (informatics)
- **MateInfoUB 2021** Third Prize (mathematics)
- **FTC 2020** Innovative Award, 3<sup>rd</sup> place
- **FTC 2019** Think & Design Awards, 3<sup>rd</sup> place

## NOTABLE PROJECTS

### Wi-Crypt

An object-oriented C++ implementation of the AES algorithm, allowing for 128, 192 and 256 bit encryption using ECB, CBC, CFB, OFB and CTR modes.

[v-vintila.com/#wi-crypt](https://v-vintila.com/#wi-crypt)

Sep. 2022

### WiCE (Wi's Chess Engine)

A single-threaded chess engine written in object-oriented C++ that allows the computer to beat opponents ranked as high as 1800 ELO.

[v-vintila.com/#wice](https://v-vintila.com/#wice)

Jun. 2021

### N-AI Spam (Non-AI Spam detector)

An advanced heuristic-based spam detection algorithm written in C with a measured performance of  $F_1 = 95.63\%$  on 2000's emails. The program won the Baliza challenge.

[v-vintila.com/#n-ai-spam](https://v-vintila.com/#n-ai-spam)

Jan. 2022

### v-vintila.com

A modern, responsive website designed from the ground up using HTML5, SASS (CSS3) and JS (jQuery), dedicated to publish my work.

[v-vintila.com/#v-vintila](https://v-vintila.com/#v-vintila)

Nov. 2022

## COMPUTER SKILLS

- **C / C++** **Advanced**, acquired while working on my personal projects and by participating in the olympiads.
- **OOP Concepts** **Advanced**, developed for my CS homework and personal projects.
- **Web Dev.** **Advanced** in HTML, CSS (SASS) and JS, proven by my personal website.
- **Python, Octave** **Intermediate** knowledge, learnt in university.
- **Linux** **Intermediate** user, since daily-driving an Arch distro.
- **Networking** **Basic** knowledge, developed during CCNA1.

## PERSONAL SKILLS

- **Leadership** Acquired while being a team leader for our high-school's FTC team, MasterMinds.
- **Communication** Developed while teaching others how to code.
- **Perseverance** Proven by the many attempts to qualify for the National Informatics Olympiad (ONI).
- **Professionalism** Demonstrated by the attention found in my code.