ALESSIO FERRARINI

MSc Computer Science Student

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EDUCATION

Master's degree in Computer Science   **University of Padua**

📋 29.9/30 GPA   📅 Sept 2022 - June 2024 (expected)

- Programming languages and systems track.
- Relevant course work includes: Advanced topics in programming languages, Formal methods for cyber-physical systems, Functional languages, Languages for concurrency and distribution, Software verification and Type Theory.

Master's degree Erasmus Student   **VU Amsterdam**

📋   📅 Sept 2023 - Jan 2024 (expected)

- Artificial intelligence and parallel systems.

Bachelor's degree in Computer Science   **University of Padua**

📋 110 cum laude   📅 Sept 2019 - June 2022

- Thesis title: Implementation of a static typechecker and optimizations for a programming language.

WORK EXPERIENCE

Tutor   **Univeristy of Padua**, Padua, Italy

🎓 Teaching   Public speaking   📅 Sept 2022 – Present

Supported the teaching of the following undergraduate level courses:
- Algorithms and data structures.
- Automata and formal languages.

University internship   **Zucchetti**, Padua, Italy

</> C++   Haskell   📅 May 2022 – Jun 2022

- Developed a static type checker for the CPL programming language.
- Improved runtime performances by 30%.
- Implemented new features in the language, including:
  - Generics
  - Sum types
  - Non-nullable types.

Junior Developer   **Accenture**, Verona, Italy

</> Java   Spring   TypeScript   VUE   Flutter   📅 Jul 2019 – Sep 2019

- Developed an authentication system based on the OAuth2 specification.
- Developed a set of proof of concept.

ACHIEVEMENTS

Cyber Challenge 2020   **Laboratorio Nazionale di Cybersecurity del CINI**, Padua, Italy

🛡 Python   C++   CyberSecurity   📅 Nov 2021

Admission to the course was granted after passing three levels of tests which resulted in an admission rate of 12.57%. The training course took place at the University of Padua from March to June 2020. The total duration of the course was 72 hours, with 24 hours of lessons and 48 hours of exercises, requiring significant additional commitment.

SIDE PROJECTS

Rec Static Analyzer

</> Haskell   ⬡ alecsferra/RecStaticAnalyzer

An abstract interpretation based static analyzer for the REC programming language.