

Elia Pasquali

COMPUTER SCIENCE MASTER'S STUDENT · SOFTWARE DEVELOPER

Verona, Italy

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Education

University of Padua

Padua, Italy

M.Sc. IN COMPUTER SCIENCE

2023 - Present

- Major in Programming, Languages and Systems
- **Relevant Courses:** Functional Languages, Software verification, Type Theory, Languages for Concurrency and Distribution, Formal Methods for Cyber-Physical systems, Methods and Models for Combinatorial Optimization, Game Theory
- **Core Topics:** Language design, Formal Verification, Abstract Interpretation, Model Checking, Type Theory, Concurrency Theory, Optimization Algorithms

University of Padua

Padua, Italy

B.Sc. IN COMPUTER SCIENCE

2019 - 2023

- Thesis: “Design and implementation of a Network Detection and Response system”, internship project report

Experience

Network Specialist Intern

Padua, Italy

NETWORK OPERATIONS CENTER - WINTech SPA

2023

- Managed the full lifecycle of a new Network Detection and Response (NDR) system (Sangfor CyberCommand).

Projects

TinyML Interpreter

 eliapasquali/TinyML

DEVELOPER

Functional Languages University Project

- Implemented an interpreter (mostly the type checker) for a tiny subset of ML.
- **Technologies:** F#, Type Inference

Hackathon Projects (Backend Developer)

 Demo MopTag,  Demo Chargeware

MARKAS CHALLENGE (2024) & VMWARE CHALLENGE (2023)

NOI Hackathon SFSCON Edition 2023 & 2024

- **MopTag (2024):** Developed a BLE-based equipment tracking system. Engineered backend APIs and Bluetooth integration, later refactored from Python to Go for an ESP-32.
- **Chargeware (2023):** Developed a system to monitor and manage misuse of EV charging stations, leading backend development and module integration.
- **Technologies:** Python, Golang, React, Bluetooth, ESP-32

Power profile switcher

 eliapasquali/power-profile-switcher

DEVELOPER/MAINTAINER

Personal Side Project

- Developed and maintained a GNOME extension to automate power profile switching based on AC power and battery level.
- **Technologies:** Javascript, Git

Trustify

 Trustify

BACKEND DEVELOPER

Software Engineering University Project

- Developed a blockchain-verified review system (proposed by SyncLab SRL) to mitigate review-bombing.
- Engineered the Solidity smart contract, REST APIs, and implemented CI/CD automation (Docker, build/test).
- **Technologies:** Java, Spring, Solidity, Docker, CI/CD

UniHelp

 UniHelp

DESIGNER & FRONTEND DEVELOPER

Web Technologies University Project

- Designed and developed a website to centralize information for CS students, with a strong focus on accessibility.
- Participated in the “Accattivante Accessibile” accessibility-focused competition.
- **Technologies:** HTML, CSS, Javascript, PHP, Accessibility

Technical Skills

Programming

Python, Java, Kotlin, F#, Solidity, Web stack

Languages

Italian (Native), English (B2)