

IVAN ANTONINO ARENA

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EDUCATION

Technical University of Denmark

MSc Computer Science and Engineering; Major: Artificial Intelligence and Algorithms

Copenhagen, DK

Oct 2023 – Present

Università degli Studi di Padova

BSc Computer Science; GPA 3.95/4.00

Padua, IT

Sep 2020 – Jul 2023

EXPERIENCE

Qualcomm Technologies

Software Engineer Intern

Cork, IE

May 2023 – August 2023

- Designed and developed Flask app to run transformers AI models on AIC-100 accelerator.
- Contributed to Huggingface's open-source diffusers library with a custom pipeline for AIC-100 accelerator reducing code verbosity by 95%.
- Providing a single interface to test all the AI models improving efficiency.

Athesys Srl

Software Engineer Intern

Padua, IT

Mar 2023 – May 2023

- Set up SAML server in CentOS, RHEL and Ubuntu VMs using FreeIPA.
- Implemented proprietary OpenID Connect SSO on Linux covering 100% of the distributions used by the company.

SKILLS

Languages: C/C++, Python, JavaScript, HTML5, CSS3/Sass, LaTeX, SQL, PHP

Frameworks: React, Node.js, PyTorch, NumPy, Qt

Developer Tools: Git, Docker, Visual Studio Code, Jira, Linux, Jupyter Notebook, PostgreSQL, MongoDB

PROJECTS

UnCAPTCHAble Node.js, React, Python, PyTorch, MongoDB

github.com/ivanarena/uncaptchable

- CAPTCHA API written in Node.js and Express.js, using MongoDB and Mongoose to store the tests.
- React demo to try CAPTCHA resolution.
- Test suite for a number of randomly retrieved CAPTCHAs against image classification and object detection AI PyTorch models.
- 100% probability of success against image classification, 96% against object detection.

QtChartifier C++, Qt

github.com/ivanarena/unipd-progetto-pao

- Chart-oriented Excel clone written in C++ with Qt library.
- Handle text or numeric data in a resizable table.
- Display data dynamically in five different charts.

CERTIFICATIONS AND PUBLICATIONS

Front End Development Libraries

Developer Certification, representing approximately 300 hours of practice.

FreeCodeCamp

Jul 2023

Back End Development and APIs

Developer Certification, representing approximately 300 hours of practice.

FreeCodeCamp

Jul 2023

Ready Trader Go

Took part in Optiver's Hackaton.

Optiver

Mar 2023

Code Jam 2022

Passed the Qualification Round.

Google

Apr 2022

JavaScript Algorithms and Data Structures

Developer Certification, representing approximately 300 hours of practice.

FreeCodeCamp

Aug 2021

Responsive Web Design

Developer Certification, representing approximately 300 hours of practice.

FreeCodeCamp

Mar 2020