Thomas Pellegrini

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Pettenasco (NO), Italy

EDUCATION

Master's Degree in Computer Science
University of Milano-Bicocca
2018 - 2021 Milan, Italy

- Thesis on the automatic generation of test cases for software enforcers.
- **Relevant Coursework:** Machine Learning, Cloud Computing, Internet of Things, Software Architecture.

Bachelor's Degree in Computer Science
University of Milano-Bicocca
2015 - 2018 Milan, Italy

- Thesis on the development of a cross-platform application with React Native for my university.

Scientific High School Diploma
Istituto d'Istruzione Superiore "Piero Gobetti"
2010 - 2015 Omegna, Italy

PROJECTS

Test4Enforcers (Android)
Built tool for automatic generation of test cases for software enforcers that can be used to modify the runtime behavior of Android applications to guarantee that relevant correctness policies are satisfied.

IoT Based Smart Weather Station
https://github.com/ThomasPellegrini/Smart-Home-IoT
Built IoT project based on NodeMCU, Python server, MySQL db, MQTT protocol and a Telegram bot.
The goal of this project is to make a temperature/humidity/ambient light/rssi monitor that wirelessly logs the values to a remote server.
This system can be controlled with a Telegram bot and a web client.

React Native News App
https://github.com/ThomasPellegrini/University-News-App
Built React Native news app that displays news articles from Bicocca University.

Sorting Visualizer
https://github.com/ThomasPellegrini/SortingVisualizer
Built React application for visualizing sorting algorithms (Merge Sort).

LANGUAGES

Italian Native

English Proficient

SKILLS

Languages:
Python **Java** **JavaScript** **HTML**

Databases:
MySQL **NoSQL (MongoDB)**

Frameworks
React **React Native**

Other:
Git **Linux** **Windows** **Docker**

SOFT SKILLS

Team Work:
Worked effectively as part of my team at the Startup Weekend Milan 2019 and had to be adaptable to meet the needs of the team.

Communication
Confident verbal communication skills as demonstrated delivering presentations at university. Audiences ranged from small groups to numbers of up to 50 people.