

# 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.

### Diploma di Maturità Scientifica

**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.