

# Thomas PELLEGRINI

## Software Engineer

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## EDUCATION

- 2018 - 2021 **Master's Degree in Computer Science, University of Milan - Bicocca**  
- Thesis on the automatic generation of test cases to validate enforcers for Android apps.  
- *Relevant Coursework* : Cloud Computing, Internet of Things, Software Architecture.
- 2015 - 2018 **Bachelor's Degree in Computer Science, University of Milan - Bicocca**  
- Thesis on the development of a cross-platform application with React Native and Redux that delivers campus news.

## EXPERIENCE

- Ongoing  
03/2023 **Software Engineer, SERENIS HEALTH, Full remote, Italy**  
> Working to make mental health accessible.  
React NodeJS Typescript Apollo GraphQL Federation Jest
- 03/2023  
03/2021 **Data Engineer, QUANTYCA - DATA AT CORE, Full remote, Italy**  
> Proficient in all facets of Business Data Analysis, Data Modelling and ETL flows development using Pyspark.  
> Gained solid technical expertise in Software Development Lifecycle implementing Backend solutions with core Java technologies as SpringBoot and Frontend frameworks using JavaScript, ReactJS, Redux, HTML5 and CSS.  
> Responsible for the development of automatic processes designed to speed up the data entry process by 50%.  
> Responsible for refactoring existing AWS workflows using shared success and fail jobs reducing the amount of allocated resources by 20%.  
AWS Pyspark React Spotfire Springboot

## SKILLS

- Languages** Python, Typescript, PySpark  
**Frameworks** React, React Native, NodeJS  
**Databases** MySQL, PostgreSQL, Oracle, Redshift, IBM DB2  
**Other** Git, Scrum, AWS, Docker

## LANGUAGES

- > **Italian** : Native
- > **English** : Proficient

## + CERTIFICATIONS

- > **AWS** Cloud Practitioner
- > **Tibco** Spotfire Professional

## PROJECTS

### IoT BASED SMART WEATHER STATION

github.com/ThomasPellegrini/Smart-Home-IoT

- 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.

C++ Python NodeMCU MySQL MQTT protocol Telegram bot

### DISCORD CLONE

github.com/ThomasPellegrini/discord-clone

- Discord clone with the essential features like account sign in and topic creation.

Django Python

### REACT NATIVE NEWS APP

github.com/ThomasPellegrini/University-News-App

- React Native news app that displays news articles from Bicocca University.

React Native Javascript Redux