

# Andrea MIELE

<https://andreamiele.fr/>

Mail : [andrea.miele.pro@gmail.com](mailto:andrea.miele.pro@gmail.com)

Mobile : +33 7 71 10 13 05

## EDUCATION

---

- **Bachelor in Engineering Science - ENSC, Bordeaux INP** Bordeaux, France  
*Cognitic and computer science engineer. Currently in gap year. Promotion delegate. GPA: 4/4 Sept. 2021 – Aug. 2022*
- **CPGE MP-Informatique - Lycée Aux Lazaristes** Lyon, France  
*Top 5 CPGE in France, Equivalent to L2 Mathematics, Physics.* Sept. 2018 – July 2021
- **Lycée Condorcet** Belfort, France  
*BAC Scientifique - Mention TB (17.83/20.0). GPA: 4/4* Sept. 2015 – July 2018

## EXPERIENCE

---

- **F. Hoffmann-La Roche** Basel, Switzerland  
*Machine Learning Engineer Intern in Corporate Donations and Philanthropy department* Jun 2022 - Now  
Support the integration of new digital and AI applications within philanthropy / Advise on how data driven approaches could be applied towards existing philanthropic projects, fundraising and employee engagement activities / Carry out research on the latest digital trends in philanthropy (apps, platforms, experiences) and opportunities to integrate new approaches across the CDP portfolio / Apply AI/deep-learning to our recruitment methodologies to key programmes within our Arts Science space as well as our skills-based volunteering programme / Logistic and project management e.g. Roche Continents 2022
- **i2C** Bordeaux, France  
*Chief Design Officer and Business Manager* Feb 2022 - Now  
Create, and develop design concepts and translate them into compelling detailed visual designs for new products. / Support continuous improvement of UX related business and development processes. / Supervision of the missions (quality, validation, management).
- **MCDonald's** Lyon, France  
*Student job. Multi-skilled crew member.* July 2020 - August 2020
- **Private science lessons** France  
*Private teacher of mathematics, physics* Sept. 2019 - Now  
Preparation of courses, creation of tests and exercises. Management of revision and student work schedules. Level: Between year 7 pupil and college

## PROJECTS

---

- **FER**: ML Model to predict human emotion by receiving an input image. (GitHub)
- **NNNET**: Implementation a Neural Network C library from scratch, for educational purposes. (GitHub)
- **A Very New World**: Unity Colony building games created in 2022. in C# (GitHub)
- **Telling Stories**: University project to create a website with interactive stories, in HTML, CSS, JS. (GitHub)
- **Project R 2022**: R University project to give an analysis of Streaming platforms. (GitHub)
- **Démineur**: University project on a minesweeper code, in C# (GitHub)
- **ETE**: Creation of the front-end and one of the serious games in JavaScript for a project aimed at improving participants' self-esteem. (GitHub) (Site)
- **L'Ile Aux Fractions**: Unity game to help dyscalculic students learn fractions.
- **CryptoBOT**: Theoretical cryptocurrency trading bot.(GitHub)
- **Crowd-2D**: Draw a 2D map, place n populations, exits and simulate a crowd movement in this configuration. (GitHub)

## PROGRAMMING SKILLS

---

- **Languages**: : Python, C#, HTML, CSS, PHP, SQL, R, Javascript, CAML, Latex, React Native
- **Technologies**: : Bootstrap, TF/Keras, pandas, NumPy, scikit-learn

## LANGUAGES

---

- **French**: Native
- **English**: Professional working proficiency - TOEFL iBT: 102/120
- **Italian**: Competent - B2

## PERSONAL INTERESTS

---

- **Judo**: High Level sportsman for University. Vice Champion of France 2018.
- **Photography**: Amateur photographer