



# Valentin Berger

## Engineer in Computer Science

### Contact

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**GitHub**  
<https://github.com/Cynnexis>

### Languages

**French**  
Native language

**English**  
Fluent, C1 Level (CEFR),  
TOEIC 955/990

**Spanish**  
Good command

### Interests

Running

Reading and writing

Coding personal projects

International travel

### Diplomas

#### Master's Degree in Artificial Intelligence

2019 – 2020

Université Lyon 1, double degree with Computer Engineering curriculum

#### Computer Science & Engineering Degree at Polytech Lyon

2017 – 2020

Polytech Lyon, in France

#### First and second year of a Bachelor's Degree in Computer Science and Mathematics

2015 – 2017

Université Grenoble Alpes, two years of preparatory class for Polytech

### Professional Experiences

#### CNRS - Institut des Sciences Cognitives Marc Jeannerod

Institute specialized in cognition and neurosciences

November 2020 – March 2022

Research assistant engineer.

- Developed a web architecture and a mobile application for an interactive survey,
- Deployed the architecture with Docker, Apache, MongoDB, Prometheus and Traefik,
- Applied image processing using state-of-the-art algorithms.

#### Solotec Lyon

Digital service company specialized in consulting

March 2020 to July 2020 – 5 months

Research & Development internship. The mission was to build a Chatbot for the Solotec employees to answer their questions about the organization.

- Natural language processing using spaCy,
- Created dense, convolutional and recursive neural networks with TensorFlow,
- Developed a CI/CD pipeline on GitLab.

#### McMaster University

McMaster is a university located in Hamilton, Canada.

September 2018 to January 2019 – 5 months

Research internship in Mathematical Optimization. The goal was to handle the formulation of a mathematical model on an oil refinery in order to manage the uncertainty of shutting down machines for different durations.

- Wrote a multiperiod model,
- Understand how mathematical optimizers work,
- Contributed to a scientific journal.

#### STMicroelectronics Crolles

A manufacturer of semiconductors

July and August 2017 – 2 months

Temporary job as operator in clean-room

- Maintained machines in the Lithography area.

### Skills

#### Programming Languages, Scripts and Frameworks

- C, C++, Java/Kotlin, Dart and Python 3.x
- Shell/Bash, HTML/CSS/JS, NodeJS, OracleSQL and LaTeX
- Good command of TensorFlow and Android Native
- Excellent command of Flutter, Docker, git, GitHub Actions, GitLab CI/CD and UNIX systems