#### CLÉMENT JAMBON

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# Education

#### 2019 - present

#### École Polytechnique, Paris, France

- Pursuing a postgraduate engineering degree in one of France's leading schools of science and engineering, to be conferred in 2023
- Majoring in computer science and taking part in the advanced program *Image, Vision and Machine Learning*
- Leading a six-month research project on optimized signed distance fields GPU rendering

#### 2017 - 2019

#### Lycée Faidherbe, Lille, France

- Took a two-year intensive university-level preparation in mathematics and physics to prepare for highly competitive nationwide exams
- Was admitted to most of France's top-ranking schools including Mines ParisTech, École Centrale Paris, École Normale Supérieure and l'École Polytechnique

# Work Experience

# June 2021 Aug. 2021

- Computer Vision Engineer (Internship), Wemap, Montpellier, France
  - $\bullet$  Developed a robust monocular SLAM pipeline supporting 360-degree cameras based on indirect methods
  - Devised a state-of-the-art prototype of visual positioning system for large datasets of indoor locations

#### Oct. 2019 March 2020

# - Teacher and Research Assistant (Internship), Institute of Technology of Cambodia, Phnom-Penh, Cambodia

- Provided 40 second-year Cambodian students with a preparation in mathematics and physics for l'École Polytechnique's entrance exam
- Wrote a 280-page original textbook for the corresponding programme
- Organized presentations and workshops on computer science in the robotics laboratory
- Led a five-month research project on Reinforcement Learning in the robotics laboratory

#### Oct. 2015 - Sept.

# 2017

#### Software Developer, Artenpik, Lille, France

- Contributed to the creation of an augmented-reality platform for street-artists
- Developed an image-recognition solution for large datasets of artworks
- Won two hackathon prizes including First Place at "Happy Hacking Days" in 2015

# Languages

- French, native
- English, proficient: TOEFL iBT® Test 111/120 (reading: 28, listening: 27, speaking: 28, writing: 28)
- German, professional

#### Skills

- Software development: C, C++, Python, Java, C#, Rust (beginner)
- Web development: JavaScript, Typescript, React, Node.js, Express.js, Django, SQL, Hugo
- Computer Graphics: OpenGL API, Vulkan API (beginner), GPU architecture, rendering pipelines, ray tracing, game development with Unity
- Computer Vision: image processing, features extraction, multiple view geometry, SLAM and SfM pipelines
- Machine Learning: PyTorch, Scikit-Learn, Topological Data Analysis, Graph Representation Learning, NLP, Reinforcement Learning
- Network Engineering and computer architecture: Internet and IoT protocols, CPU architecture, memory hierarchy, cybersecurity, compilation
- Tools: Unix/Linux, LATEX, CMake, Git, Continuous Integration (CI)
- Driving licence

## Interests & Activities

- Have played the guitar for 9 years: lead guitarist in a rock band
- Practicing mountain running, trail running, road cycling and orienteering; taking part in nationwide competitions
- Proudly involved in the Cooking Society (*Ratatouille*), Arts Society (*Bureau Des Arts*), Mathematical Society and Computer Society (*Binet Réseau*) of l'École Polytechnique
- Organised a one-week trip in Italy for 64 schoolmates
- Supervised the activities and routes of a two-day adventure race with 200 participants