

Etienne Malaboeuf

✉ etienne.malaboeuf@etu.univ-nantes.fr • 🌐 etienne.ml.github.io
in etienne-malaboeuf

Student Software Engineer - High Performance Computing

EDUCATION

Graduate School of Engineering (of the University of Nantes)

Nantes, France

M.Sc in Computer Science (4th year out of 5), ranked 2/72

Expected Graduation, September 2022

University of Nantes

Nantes, France

A two-year technical degree in computer science

June 2019

EXPERIENCE

Capacités, Engineering company

Nantes, France

Student Software Engineer, Student job

August 2021 - September 2021

- Worked on a C/C++ project for probabilistic, graphical and relational models
- Refactored modules of the codebase and enforced coding standards (tests and CI/CD pipeline, style and git workflow)

Ulster University

Londonderry, Northern Ireland

Software Engineer Intern

May 2021 - August 2021

- Designed and developed an Unreal Engine 4 simulation for human-computer interaction (in C++)
- Extensive use of Amazon Web Services, offloaded the simulation in the cloud (streaming the viewport to the user)
- Owned the design and development of the project from backend to frontend
- Simulated facial animations using visemes

Soleneos, Centrale Nantes business incubator

Nantes, France

Software Engineer Intern

June 2020 - August 2020

- Developed and implemented a solution aimed at near-complete automation of 3D model construction and meshing in Python
- Integrated a simulation framework for high performance computing (Salome + In house codebase)

General Transmissions

Les Herbiers, France

Software Engineer Intern

April 2019 - July 2019

- Designed and implemented a solution for business intelligence data visualization
- Worked closely with production the department manager for accurate functionality requirement

RELEVANT COURSES & SKILLS

- Software Engineering
- High Performance Computing
- C/C++
- Linux
- Python
- SQL

SELECTED PROJECTS

Dynamic Positioning for Offshore and Maritime Industry

October 2020 - May 2021

Collaborative work with D-ICE Engineering

- Developed a man-machine interactive solution for dynamic positioning data generation and visualization
- Used d3js and L^AT_EX in the PDF report generation backend

Personal Archive of Algorithm and Methods

September 2019 - Present

- Library containing most of the algorithms and data structures learned and/or encountered during the past 2 years
- Selected modules: small BLAS, concurrency related, multiple PRNG and cyphers, multiple containers, image/mesh file format readers, signal processing, a message passing system for C++ and a small ray tracing based renderer
- Developed using C++14 using Google C++ code quality standards

PolyHash Code

October 2019

- Competition between students based on the Google Hash Code
- Developed a solution to an optimization problem using Python. Graph theory and research papers were used

ADDITIONAL

- Native French speaker, proficient in English (C1 / TOEIC 970/990), notion of Chinese
- Interested in small drones, “multi-rotors” with “*Point Of View*”