# JEAN-BAPTISTE MORICE

# **Software Engineer**

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# SUMMARY

I am a software engineer specialized in computer graphics and digital image processing. My main interests are the development of engines and visualization tools in C++.

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Operating Systems : Windows Linux
Tools : Git CMake Conan GitLab GitLab CI/CD
Jenkins SonarQube Visual Studio Personal :
TeamworkCommunicationProject ManagementAgile Software Development

# **EDUCATION**

# Engineering Degree in Computer Science

École Supérieure d'Ingénieurs de Rennes (ESIR)

🛗 2015 - 2018

A french engineering degree in computer science with a specialization in computer graphics and digital image processing from a competitive engineering school attached to the University of Rennes 1.

Courses:

- Rendering
- Digital Image Processing
- Compilation for Digital Imaging
- Human-computer Interactions
- Image Classification

- Video Compression
- Computer Vision
- Special Effects
- Video Games

# Two-year University Degree in Computer Science Institut Universitaire de Technologie de Laval

🛗 2013 - 2015

A two-year university degree in computer science. Approximately equivalent to a Diploma of Higher Education in the UK, or an Associate's Degree in the US.

Courses:

- Algorithms, Data Structures and Programming
- Object-oriented Programming
- Software Architecture
- Human-computer Interactions

- Databases
- Operating Systems
- Computer Networks

## Baccalauréat Général Scientifique Mention Européenne

## Lycée Saint-Martin

🛗 2010 - 2013

French secondary school diploma. Approximately equivalent to A Levels in the UK, or an High School Diploma in the US.

## Diplôme National du Brevet

### **Collège Saint-Hélier**

🛗 2006 - 2010

Approximately equivalent to GCSE'S under C Grade / GNVQ Intermediate, in the UK, or 9th Grade in the US.

# **EXPERIENCE**

# Technical Leader

### Siradel

March 2022 – December 2023

Saint-Grégoire, France

Technical oversight of two projects: a 3D visualization software for geographical data and a new similar undisclosed project, both developed in C++ and C#; as well as regular maintenance and evolution work.

Responsibilities and missions :

- Coordinate the team's software architecture efforts and plan technical studies
- Responsible for the setup, maintenance and evolution of project tooling (build system, CI/CD, unit and integration testing, technical documentation)
- Establishing and enforcing development standards
- Ensuring knowledge sharing
- Training of new recruits
- As well as my previous activities as a software engineer

## Software Engineer

## Siradel

🛗 September 2019 – March 2022

Saint-Grégoire, France

Maintenance and evolution of a 3D visualization software for geographical data developed in C++ and C#.

Responsibilities and missions :

- Developing new features and implementing bug fixes
- Code reviews and manual testing
- Contributing to the functional analysis and technical specification work
- Customer support

# Virtual Reality R&D Engineer Intern B<>COM

#### Harch – September 2018

• Cesson-Sévigné, France

As part of this end-of-study internship for my engineering degree, I took part in an exploration of new research topics for a research and development laboratory. I was tasked with studying the possible interactions in virtual reality between synthetic 3D content (produced by a graphic designer) and 3D content captured from reality (photogrammetry, 360-degree photos and videos, etc.), and to develop demonstrators highlighting the identified technological barriers which could be the subject of new research projects.

Responsibilities and missions :

- Scientific and technical watch
- Writing of a 3D reconstruction techniques state-of-the-art
- Classification of content hybridization possibilities
- Development of three prototypes: tangible interactions in virtual reality with objects reconstructed using photogrammetry, enhanced omnidirectional content to allow selection, navigation in virtual reality in different type of contents captured from reality

# 3D Rendering Engineer Intern **SOGITEC**

🛗 June – September 2017

**9** Bruz, France

As part of this internship, I assessed the relevance of the Vulkan graphics API as a replacement for OpenGL in a real-time 3D rendering engine used for flight simulation. I was tasked with implementing it on a subset of the engine, then evaluating the potential performance gains, and finally proposing a methodology to perform the API change over the entire engine.

Responsibilities and missions :

- Implementation of the Vulkan graphics API on a basic subset of the real-time 3D rendering engine
- Performance gains assessment
- Assessment of the efforts involved in performing the API change over the entire engine
- Definition of a strategy to perform the graphics API change

IT Project Manager Intern

## FIT

🛗 June – August 2016

Rennes, France

As part of this internship, I contributed to initiate and plan an improvement project for the company's information system. I was tasked with performing needs assessments and expressing functional specifications for the improvement of the current Enterprise Resource Planning software (ERP) and for the purchase of a Customer Relationship Management software (CRM). I was also charged with various system administration and maintenance tasks, as well as improving reports from a Business Intelligence (BI) system.

Responsibilities and missions :

- Analysis and assessment of requirements with every department for an update of the ERP
- Planning and budgeting of future changes with internal managers and the external service provider in charge of the ERP
- Analysis and assessment of requirements with the sales department for the purchase of a CRM
- Maintenance and evolution of Business Intelligence reports based on ERP data extractions
- System administration and user support

## Software Developer Intern

## MPO

🛗 April – August 2015

♥ Vilaines-La-Juhel, France

As part of this end-of-study internship for my two-year technical degree, I was tasked with the functional analysis, design, and development of a software interface (a web-service) between a Desktop Publishing (DTP) workflow engine and a Manufacturing Execution System (MES).

Responsibilities and missions :

- Needs collection and analysis
- Writing of the functional and technical specifications for a solution
- Development of the solution

# VOLUNTEERING

Events Coordinator ISATI (ESIR's Student Office)

🛗 2015 - 2016

Planning, budgeting, scheduling and management of various events aimed toward ESIR students'.





#### Industrial Project Winner of the 2018 Enterprise Award ESIR & Sopra Steria

#### December 2018

Award received for the work done during our industrial end-of-study engineering project. This project, commissioned by Cooper Standard, aimed to establish a sample preparation protocol for syntactic foam porosity analysis and develop an accompanying image analysis tool.



## "Disability Awareness" Challenge

# Nuit de l'Info 2013 & Oracle

#### Hovembre 2013

Award received for the writing of a report detailing various recommendation to improve accessibility for people with disabilities when designing user interfaces. This work was the result of a challenge proposed by the Oracle company during the "Nuit de l'Info 2013" hackathon.

# LANGUAGES

- French Native speaker
- English Advanced (TOEIC 990/990 CEFR C1)

# **INTERESTS**

- Music
- Reading
- Video games : Outer Wilds, A Plague Tale: Innocence, Mirror's Edge

- German Elementary (CEFR A2)
- Board games
- Sports : Cycling
- Travelling : England, Ireland, Germany, Turkey, Czech-Republic

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