GREGOIRE

COUSIN

Full Stack ENGINEER JEE / JS

**PROFILE**

I am a graduate with a masters in computer science. I have always been passionate about technology, first graduating in 2012 with a degree in sound engineering and subsequently working for several world wide known recording studios. My passion for technology then led me to work for Apple Inc. which further drove me to explore computer programming as a career path. I have found that the combination of technical knowledge, logic, and creativity that programming requires is highly fulfilling and continues to fascinate me to this day.  Given my dynamic and inquisitive nature, I could not see myself working in any other field. I have come to the realization that the diverse application of programming knows no bounds! I believe that technology has strong potential for "bringing people together" and stimulating human progress at a faster and more efficient pace than ever before.

**CONTACT**

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XOTOPIO.COM

**EDUCATION**

**BTS · RECORDING ARTS**

@Fullsail University | Orlando, Fl, USA | 2012

(A university focused on Audio Technologies with the goals of making you become an engineer)

Advanced Audio Recording | Audio Workstation Microphone Theory | Vocal Production | Audiotronics / Electricity | Digital Mastering | Game Sound Programming | Audio Plugins | Audio Consoles/Controllers | Video Production Internet Protocols | Music Theory

**BTS · SOFTWARE DEVELOPMENT**

@Maynooth University | Celbridge, Ireland | 2018

(A technical, methodological, and organizational introduction to software development)

Algorithm Data Structures | Object Programming | Mobile Development | Computer Systems Web Information | Processing Database Software Testing | Software Projects | Structured Programming

**MSC · COMPUTER SCIENCE**

@University College Dublin | Dublin, Ireland | 2019

(Emplaced a solid foundation for analyzing problems and providing practical solutions)

Security System | Python Data Programming | Cloud Computing | Ucd | Udd | Ux | Ui Ruby Programming | Distributed Systems | Mobile App Dev Cocoa Touch | Big Data Programming | Recommender Systems | Collective Intelligence | Contemporary Development | Information Security

**WORK EXPERIENCE**

**SNCF French National Railways**

Full stack JEE / Angular/React/VueJS Developer Engineer | September 2021 – Present

**Project:** Development and management of various applications for the detection of public transport flows

**Methodology:** V-model methodology, 2-week cycles

**Team:** Team of 7 members

**Technology:** Angular 13, Typescript, Java 11, Spring Boot 2, VueJS, React, Gradle, Postgre, Webpack, Ice-Scrum, SCSS

* Creation of React/Vue/Angular modules for micro-frontends
* Study of a version upgrade from Angular 7 to 13 with subsequent redesign
* Development of a comparison system
* Creation of a batch system (CSV)
* Creation of unit tests with JUnit
* implementation of a BEM/ITCSS system design

**ADEME – Nantes**

Full stack JEE / Angular/React/VueJS Developer Engineer | August 2020 – June 2021

**Project:** Freelancer on the Xotosphere project: bringing together social media and the commercial sector to support local artisans

**Methodology:** Agile Scrum methodology, 2-week Cycles

**Team:** Team of 3 members (Team of 3 international developers (France, Italy and India) and 3D artists)

**Technology:** Vue3, Typescript, SSH, Gitlab-Runners, Dockers, Lerna, Submodules, GraphQL, Owasp, NGRX, Digital Ocean VM, Mongo, Atlas, Jira, Discord

* Implementation of a monorepo architecture with Lerna
* Design of a model on Sketch and Illustrator
* Front-end development in Vue 3 and back-end development in NodeJS
* Creation of an API Gateway to intercept and process data
* Query optimization with GraphQL
* Implementation of industrialization via Gitlab CI
* 3D image compression technologies
* Use of Git submodules
* Creation of Back micro-services
* Blue/Green deployment
* Unit testing + Integration testing

**TECHNOLOGY STACK**

**Programming Languages**

JavaScript,

TypeScript 4

Java 11/17

Python

HTML 5

CSS 3

SCSS

**JavaScript Environment**

VueJS 2/3, Angular 2+/10/11/12/13, React, RXJS, Apache, NGRX, NodeJS, Ionic, ExpressJS, JQuery , Java Environment, Spring Boot 2, Hibernate, EJS, Websockets, SOAP, REST

**Database**

MySQL

PostgreSQL

MariaDB

GraphQL

Redis

Firebase

**Tests**

Jest

Junit

TestNG

Mockito

Emma

Karma

Jasmine

Mocha

Cypress

**Software**

Visual Studio

Neovim

JetBrains

Jira

Sketch

Adobe Suite

DBeaver

**Architecture**

Monolith

Micro-frontends

Micro-services

**Bundlers and Package Managers**

Webpack

Snowpack

Vite

NX

Gradle

Maven

NPM

Yarn

**DevOps**

Gitlab CI

Github Action

Jenkins

Docker

AWS

**Methodology**

Scrum

BDD

V model

**Operating systems**

Linux

Ubuntu

Debian

Windows

MacOS

**WORK EXPERIENCE**

**IMAIOS – Montpellier**

Full stack JS Developer Internship | June 2019 – September 2019

**Project:** @Imaios is an innovative company in the field of medical imaging and e-learning

**Methodology:** Agile Scrum methodology, 2-week Cycles

**Team:** Team of 7 members (50 other members world-wide)

**Technology:** Angular2+, NodeJS, EJSTypescript, Docker, NGRX, Jest, Owasp, Runscope, Ghost Inspector, Google Lighthouse

* Creation of new screens, graphic components in the GUI
* Development of optimization systems using websockets via Python
* Creation of a module that integrates Runscope, Ghost Inspector and Google Lighthouse to generate detailed reports
* Creation of test modules to facilitate the processing of AWS pipeline deployment
* Support for data migration, design and media streaming applications

**PERSONAL PROJECTS – Nantes**

Full stack Javascript/Typescript Developer | September 2019 – Present

**Project 1:** Cv-gen: a tool that generates personalised CVs

**Duration:** 5 months

**Methodology:** Agile Scrum methodology, 2-week Cycles

**Team:** Team of 7 members (50 other members world-wide)

**Technology:** Vue2, NodeJS, NPM, Puppeteer, MongoDB, Gitlab CI, HTML, SCSS.

* Design of a model with 3D maps (SCSS)
* Modeling of the DB in Mongo
* Front end development in Vue2
* Back end development in NodeJS
* Web scraping data generation using Puppeteer
* Unit testing + Integration testing
* Implementation of industrialization via Gitlab CI
* Code Review

**Project 2:** Xotopolo: Creation of an e-commerce site for clothing, accessories

**Duration:** 6 months

**Technology:** NodeJS, EJS, Websockets, Unit Testing

* Front end development in EJS
* Back end development in NodeJS
* Webservice Rest development
* Unit testing + Integration testing

**Project 3:** Personal website with a neon theme showcasing my projects, professional experience and qualifications

**Duration:** 3 months

**Technology:** NodeJS, Handlebars, Javascript, JQuery, Digital Ocean, Waypoints, Lazyloading

* Optimized animation using buffer and throttling concepts
* Front-end development in EJS and Handlebars
* Back-end development in NodeJS
* Unit testing + Integration testing
* Implementation of industrialization via Gitlab CI
* Code review

**Project 4:** Le Bon Coin Quick Glance - Quick overview via a gallery from the “Le Bon Coin” website

**Duration:** 6 months

**Technology:** Inquirer, Webpack, NodeJS, NPM, Middlewares, Logs, Json

* Development of an API to extract information from the Le Bon Coin website
* Generation of data via JSON files

**Project 5:** Pythongraph - Development of an application that collects data sets from a web API, pre-processes and analyses the collected data

**Duration:** 8 months

**Technology:** Graphs, Jupyter, MD, Python

* Implementation via Jupyter
* Creation of an API that collects data from one or more APIs using Python