



## FULL STACK DEVELOPER

PYTHON – JS | DJANGO – FLASK | DC / D3 – JQUERY | HTML – CSS | AWS  
SQL / NoSQL | GIT (GITHUB / GITLAB) | PAAS (HEROKU) | LINUX | SCRUM

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DUBLIN



EU CITIZEN



### Profile

**Full Stack Developer with 10 months of professional experience:** 4 months freelancing and 6 months within a company. Trained specifically in front-end / back-end technologies with a 3 month hands-on classroom course.

**Six years previous experience as a project engineer,** providing strong teamwork and autonomy skills enabling quick integration into teams and projects. Education (two Master of Science degrees) providing strong problem solving abilities and a capacity to learn and adapt fast.



### Software Development Projects

#### Software Developer – OMKO

Custom Odoo Add-on – Jan. / July 2019

End-to-end development of a custom add-on to the open-source [Odoo](#) ERP platform, an all-in-one business software including accounting and warehouse management. The module implements listeners/notifiers that push specific sets of data on CRUD events – e.g. a change in a sale status – to an Apache NiFi system (see below). Work included: object-oriented programming, git workflow, working with the source code architecture / documentation, use of open-source add-ons, ...



Python (OOP) – Unit Testing (unittest)

SQL (Postgres / pgAdmin)

Git (GitLab) – Linux – SCRUM



Proprietary

Data Integration, routing and transformation – May / July 2019

Building data flows with [Apache NiFi](#) between systems or sub-systems (vendors supplies, sale channels,...), that can use different data formats (CSV, JSON, ...). Writing scripts in Python to process data (cleansing and remapping) and to manage databases using API.



Apache NiFi – Python – Docker

Git (GitLab) – Linux – SCRUM



Proprietary

#### Full Stack Developer – Freelance

Youth & Community Centre Web App – Sept. / Nov. 2018

This 2,800 member organisation needed an MVP website built and in production with a very tight 9 days deadline. I carried out the full completion of the project, from understanding the client's needs to frontend / backend development, deployment, delivery and follow-up. Full description of the app in the ReadMe file.



Python / Django – JavaScript / JQuery

Automated Testing – Continuous Integration (Travis)

E-commerce (Stripe) – AWS Storage (S3)

SQL (Postgres) – PaaS (Heroku) – HTML / CSS / Bootstrap



[www.mjc-mauguio-carnon.com](http://www.mjc-mauguio-carnon.com)



[github.com/Xorast/MJC-Website](https://github.com/Xorast/MJC-Website)

Trinity College Dublin Web App – Aug. 2018

TCD wanted to make an online scientific app determining the baseflow characteristic of a water resource. I worked with the researchers to transform their idea into an application. The application takes a user inputted data file and processes it to generate output data including visual representation of the data in the form of charts.



Python / Flask – NoSQL (MongoDB)

JavaScript / DC / D3 / Crossfilter (Data visualisation)

PaaS (Heroku) – HTML / CSS / Bootstrap



[www.tcd-baseflow.com](http://www.tcd-baseflow.com)



[github.com/Xorast/Trinity-Project](https://github.com/Xorast/Trinity-Project)

## SPA & API Web App – Oct. 2018 (Personal Training)

Single Page Application using API to get news from online newspapers on a user chosen topic and a custom micro-API to get tweets on Cyber Security and on two other topics.



Python / PyMongo / Tweepy / Flask  
JavaScript (API / SPA) / jQuery  
NoSQL (MongoDB) – PaaS (Heroku) – HTML / CSS



[apixavierastor.herokuapp.com](https://apixavierastor.herokuapp.com)  
[github.com/Xorast/Project-API](https://github.com/Xorast/Project-API)



## Engineer – Sun Chemical

### Production Lines Optimisation Desktop App

End-to-end development of an application generating production line reports (statistic, charts) from a database of processes (valve opening/closing, turbine speed...). This application enabled the identification of issues and the assessment of expected gain from solving them. Led to significant production line optimisation: +20% production capacity increase within 6 months.



VBA



Proprietary



## Work Experience

### Python Software Developer, OMKO, Ireland

Jan. 19 – July 19

**Software dev. –** Design and full-stack development of software, libraries and any associated systems.  
See section 'Software Development Projects'.

### Full Stack Developer, Freelance, Ireland

Aug. 18 – Dec. 18

**Software dev. –** Design and full-stack development of web applications.  
See section 'Software Development Projects'.

### Transition to Software Development: Full Stack Development Degree, Ireland Mar. 18 – July 18

### Project Engineer, Vinci Energies, Nuclear Industry, France

2011 – 2017

**Project exp. –** Worked on four and ten million euro budget projects in the highly demanding nuclear industry.  
**Teamwork –** Assisted the project manager in coordinating the work of all four teams: design / technical / construction / testing teams.  
**Client –** Liaised with the client throughout the project to resolve design, technical & contractual issues and ensure client's satisfaction.  
**Code –** Took the initiative to develop applications to automate manual procedures, increasing efficiency (quote app, doc. management app).  
**QA –** Ensured the projects' compliance with external and internal QA Management Systems, regulations and contracts.

### Engineer Assistant, Sun Chemical, Ink Industry, France

Feb. 11 – Aug. 11

**Code –** Took the initiative to solve the main engineering issue through coding.  
See 'Production Lines Optimisation Desktop App'.  
**Analytical skills –** Identified production issues, devised and implemented quantified improvements.

### Engineer Assistant, Eli Lilly, Pharmaceutical Industry, France

Aug. 08 – Jan. 09

**Project exp. –** Was fully in charge of leading the project of implementing a change in production procedures, working with production, QA, Supply Chain teams and meeting the stringent requirements of the pharmaceutical industry.



## Education

### Full Stack Development Degree, Code Institute, Dublin

2018

### Master of Engineering, Ivy League - Upenn, USA & U.T.C, France

2006 – 2011

**Scientific training** Algorithmic coding, advanced mathematics, statistics, energy & process eng.

### Advanced Master's degree – Sustainable Technologies, U.T.C, France

2010 – 2011