



## FULL STACK DEVELOPER

Python – JavaScript | Django – Flask | jQuery – DC.js / D3.js | Testing  
SQL (Postgres) – NoSQL (MongoDB) | Linux | Git | HTML – CSS

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### Profile

Full Stack Developer with real-world experience: see portfolio below. Trained specifically in current front-end / back-end technologies with a five month hands-on classroom course.

Six years previous experience as a project engineer, providing strong teamwork and autonomy skills enabling quickly fitting into teams and projects. Education (two Master of Science degrees) providing strong analytical thinking abilities and a capacity to learn and adapt fast.

Open to opportunities at entry or junior level.



### IT Projects

Upon graduation from [Code Institute](#), ranked among the [best](#) coding bootcamps worldwide, I have been working as a freelancer on the following projects:

#### Client – Youth & Community Centre Web App – Sept. 2018

This 2,800 member organisation needed a 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) – Linux – AWS Storage (S3)

SQL (Postgres) – 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)

#### Partnership – Trinity College Dublin Web App – Aug. 2018

TCD wants to make an online scientific app determining the baseflow characteristic of a water resource. I'm working 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. More features to come.



Python / Flask – NoSQL (MongoDB)

JavaScript / DC / D3 / Crossfilter (Data visualisation)

Linux – HTML / CSS / Bootstrap



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



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

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

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) – Heroku – HTML / CSS



[api.xavierastor.com](http://api.xavierastor.com)



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

As an engineer (see Work Experience) I developed business and engineering solutions, such as this one:

### Professional application – Production Lines Optimisation Desktop App

Entire 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



## Work Experience

**Full Stack Developer, Freelance, Dublin**

**Aug. 18 – Present**

**Full Stack Web Development Degree (see Education)**

**2018**

**Project Engineer, Vinci Energies, Nuclear Industry, Paris, France** **5 years (2011 / 17)**

- 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**

**6 months (2011)**

- 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.
- Teamwork –** Liaised weekly with the plant manager, the head of operations, the head of maintenance, the process expert and the operators to make decisions on the best options to implement.

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

**6 months (2009)**

- Autonomous –** Was fully in charge of implementing changes in production procedures, meeting the stringent requirements of the pharmaceutical industry.
- Analytical skills –** Collected and analysed production and chemical data for investigation.



## Education

**Full Stack Web Development, Code Institute, Dublin**

**March – Aug. 2018**

**Hands-on course** 4 wks preparation, 12 wks in class instructions and 4 wks dedicated to projects.

**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**