Quentin Vanderlinden

I am a software engineer focusing mainly on full-stack web development. I am also a mathematics enthusiast and love solving challenging problems using algorithms and data manipulation. I am also keen to develop further my skillset in UI/UX design, web security, 2-D and 3-D rendering techniques, data science and machine learning.

Working Experience

Software Engineer

Nov. 2016 - Present

The Great Circle, Rixensart

I spend most of my time developing frontend web applications, whose main purposes are to assist sailors in their decision making (ranging from amateurs to professionals). To a smaller extent, I also develop a few backend services to pair with our frontends, play with or design algorithms when the occasion arises and implement data retrieval/manipulation pipelines to integrate new weather data sources within our server infrastructure.

React | Redux | Redux-Saga | Mapbox | Deck.gl | Electron | Node.js | Express.js | TypeScript | Python | Linux | Heroku

Associate Consultant

Oct. 2015 - Nov. 2016

Computer Sciences Corporation, Zaventem

I worked as a data scientist for the Big Data & Analytics department. For the majority of my employment there, I worked on a business intelligence project for one of the top players in the insurance industry in Belgium. My role was mainly maintenance of the existing enterprise data warehouse but I also had the chance to implement a few ETL workflows. The rest of my time was split on several smaller projects related to location intelligence.

Google Maps Platform | Python | SQL | QGIS

Education

M.Sc. in Applied Mathematics, magna cum laude

2013-2015

Université Catholique de Louvain, Louvain-la-Neuve

This master revolves around the concept of mathematical model to solve complex interdisciplinary engineering problems. Students learn how to solve these problems through training in mathematical modelling, simulation and optimization. More specifically (but not exhaustively), I followed courses where mathematical models and simulations were applied to finance, machine learning, epidemiology, quantitative energy economics, tsunami dynamics, etc.

My master's thesis was called "Structure Mining in Complex Networks", and was supervised by Jean-Charles Delvenne. In that context, I designed 3 optimization algorithms based on modularity maximization to perform fuzzy community detection. Then, I compared them with state of the art algorithms on battle-tested benchmarks.

Python | C | Java | MATLAB | LaTeX | AMPL

Details

Belgian, single

Born May 14, 1991

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Contact

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Languages

French (native)

English (fluent)

Dutch (basics)

Hobbies

Endurance sports (running, cycling)

Racket sports (squash, tennis, badminton)

Watching TV shows and YouTube videos

Listening to music

Coding challenges

Miscellaneous

3rd place at the Math Matters, Apply It ! applied mathematics awareness campaign for a vulgarisation paper on special effects