

Olivier Thill

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Full stack developer with expertise in Docker, SQL, PHP, and Typescript; solid knowledge of Machine learning techniques; and strong experience in frameworks such as React, Vue.js, and Symphony. I build elegant, maintainable, scalable solutions and enjoy diving into unfamiliar tools and frameworks. With a PhD in Brain-Computer Interfaces, I bring a unique perspective to problem-solving. I am seeking new opportunities to leverage my skills to drive meaningful results.

EMPLOYMENT HISTORY

Senior Software Developer (Full Stack)

Zinal Consulting, London (Remote).

02/2022 – 06/2025

Technologies: Docker, MySQL, PHP, PHPUnit, TypeScript, React, Vite, Vitest, Git.

At Zinal Consulting, a small firm specialising in providing Learning Management Systems (LMS) to businesses, I contributed to various projects, including:

- Implementing machine learning algorithms to recommend personalised course suggestions based on users' skill sets.
- Developing a mock exam platform, simulating real-world professional exam conditions for users.
- Creating and improving a wide range of React components and tools for the application's frontend.
- Enhancing REST APIs to facilitate the seamless import of user data from client systems.
- Conducting a comprehensive security audit of the code-base, identifying and addressing vulnerabilities.

Software Developer (Full Stack)

Zinal Consulting, Frankfurt am Main.

10/2020 – 02/2022

Technologies: MySQL, PHP, Symfony, Mercure, TypeScript, Vue.js, Npm, Git.

In this role, I contributed to the development of several key projects, including:

- Building a Vue.js application to manage the scheduling of seminars and events within larger conferences, with a feature to detect location conflicts with other scheduled events.
- Developing a Symfony application with a Vue.js front-end SPA that enabled participants to take a quiz. The questions were selected by a moderator and the answers were received in real-time. Once received, the answers could be displayed on everyone's screens.

Research Officer

University of Essex, Colchester.

11/2019 – 09/2020

One focus was developing an algorithm to compute the gradient of a matrix inversion operation while avoiding floating point errors within that computation.

Graduate Teaching/Lab Assistant

University of Essex, Colchester.

10/2017 – 06/2019

Taught courses: Languages and Compilers, Fundamentals of Digital Systems

EDUCATION

Doctor of Philosophy: Computer Science / Brain Computer Interfaces

University of Essex, 2016 – 2021

Thesis: Approximate credibility intervals on electromyographic decomposition algorithms within a Bayesian framework.

Master of Science: Advanced Computer Science

University of Essex, 2015 - 2016

First class degree with Distinction – Strong machine learning focus.

Bachelor of Engineering: Computer Systems Engineering

University of Essex, 2012 - 2015

First class honours degree.

AWARDS

K.F Bowden Memorial Prize

2012 – 2013

Awarded to the four first year students with the best overall year mark.

The Institute of Engineering and Technology Prize

2014 – 2015

Awarded to the student with the highest degree mark in eligible courses.

OTHER SKILLS

Soft Skills: Leadership • Communication • Event Organisation • Time Management

Natural Languages: English • German • French • Luxembourgish

Programing: Julia • Rust • Java • Python • C++ • C# • Shell • [JT]SX? • HTML • XML • Linux

Machine Learning: Neural Networks • Genetic Algorithms • Bayesian Interference • ICA

Mathematics: Logic • Algorithms • Statistics • Set Theory • Calculus • Constraint Satisfaction