



## Joe Kadi

Software Engineer & Consultant  
MSci Computing Science

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## Education

### Glasgow University | MSci Computing Science

August 2016 - May 2021

## Work Experience

### Freelance & Writing | Software Engineering

May 2021 - Present

JavaScript, SQL, HTML, CSS, Python, React, Swift, Node.JS, AWS

- Building web & mobile applications for various clients and writing about what I learn on my [blog](#).

### University of Glasgow | Computing Science Tutor

Sept 2020 - May 2021

Java, SQL

- Teaching students about the software engineering practice and the fundamentals of SQL, Java, and HCI.
- Senate approved exam script marker.

### Traceall Global Limited | Full Stack Software Engineer

June 2020 - May 2021

HTML, CSS, JavaScript, jQuery, AJAX, PHP & SQL

- Contributed to back and front end of internal corporate web applications for clients such as: Selfridges & Co, Fortnum & Mason and Jamie Oliver.
- Developed several extensive REST API's using jQuery, AJAX and PHP.
- Built out and optimised many MySQL stored procedures in order to simplify and speed up database interactivity.
- Carried out vigorous QA testing in Jasmine and generated report for client at least once a week.

### TÓCE Limited | Co-Founder | toceglasgow.com

March 2019 - Present

Python, React, Adobe Illustrator, Photoshop, After Effects, Premiere Pro

- I design, engineer and manage the production of products and online applications. Lead software engineer & data analyst.

## Some Projects

### Evaluating DNN Uncertainty Calibration Techniques to Enable Bayesian IRL

[PAPER](#)

[REPO](#)

Python, NumPY, PyTorch, ClearML, MatLab

- Grade A self defined MSci individual project.
- Motivated, implemented and evaluated 3 state-of-the-art uncertainty estimation methods for Deep Neural Network in the Inverse Reinforcement Learning problem. A Gaussian Process was implemented and used as a base-line comparison.

### Interactive Refrigerator Magnet to Reduce Food Waste

[PAPER](#)

[REPO](#)

Swift, C++, SQL, Python, Adobe XD

- Grade A self defined honours year individual dissertation project.
- Built an iOS app in Swift as a prototype for a novel refrigerator magnet application to reduce household food waste.
- Implemented front and backend using MVVM architecture and Swift.
- Conducted user interviews and experiments to initially gather requirements and to evaluate the final prototype.

### Personal Portfolio Website

[LIVE](#)

[REPO](#)

React, Javascript, HTML, CSS, SASS

- My personal portfolio website to showcase all of my work.

## Skills

- Languages: Python, MatLab, Java, C++, C, C#, Swift, SQL, Javascript/HTML/CSS, PHP, Bash
- Frameworks: PyTorch, TensorFlow, Keras, OpenCV, PySpark, Hugging Face, AWS, Django, React, Ajax, Angular, Node.JS
- Tools: Git, Linux, Docker, Gradle, CI/CD, Adobe Illustrator, Photoshop, After Effects, Premiere Pro