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 & Consulting | Software Engineering *May 2021 - Present*
Javascript, SQL, HTML, CSS, Python, React, Swift, Node.JS, Angular, jQuery, AWS

- Building full stack web & mobile applications for various clients.

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.

Nutriplotter CrossPlatform App *LIVE* *REPO*
React, Javascript, HTML, CSS

- Grade A final third year team project which is a cross-platform mobile app, developed in React Native, that encourages healthy eating through a nutritionally accurate plate building game.
- Worked very close with client: The Glasgow School of Dentistry & Medicine. Had regular stand-ups, sprint retrospective and task estimations.

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