

# RYAN WARD

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## OBJECTIVE

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Final Year Imperial College London Computing Student seeking full time software engineering roles. I am interested in many areas of technology, and would be open to a variety of positions.

## EDUCATION

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**Bachelor of Engineering: Computing**, Imperial College London

2020 - 2023

Awaiting Degree Classification, Predicted 1st Class

Relevant Coursework:

- Final Year Project: Optimising behavioural oriented concurrency for parallelism using the C++ Verona Run-time, by implementing scheduling algorithms for multi-core threaded workloads to improve throughput and latency. Then, creating benchmarks to evaluate the effectiveness of these improvements.
- Developing low-level products including scheduling algorithms, user program execution, and virtual memory implementations for the research operating system PintOS in C. Manufacturing a compiler to a programming language specification called WACC in Scala along with creating a simple code generator in Haskell.
- Generating machine learning models, such as a decision-tree supervised classification model, along with a neural-network based regression model in Python. Similarly, I built a convolutional neural network-based segmentation mapping for brain activity and an edge detection mapping in the Computer Vision course.
- Designed a mobile application that uses computer vision and prebuilt Artificially-Intelligent API's to solve Cryptic crossword tasks in the third year software engineering group project. The front-end's development was in React-Native and the back-end's was in Python using Flask.

## SKILLS

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**Languages:** Python, C, C++, Haskell, Java, PHP, JavaScript, TypeScript (React and React-Native).

Completed various courseworks involving mobile application design using React-Native and Flask.

Virtual Environment Development - Venv, **Docker**. **CI/CD:** Gitlab Runners, Github Actions

Knowledge of Database design, normal forms, **PostgreSQL**.

## EXPERIENCE

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**Junior Software Developer**

Feb 2020 - August 2020

Sustainable Garden Tech Ltd.

*Rochester, GB*

- Used React-Native to develop front-end mobile applications.
- Developed using an agile methodology in order to produce an application within a restrictive time-frame.
- Deployed to Apple and Android App stores and AWS. PHP was used for the backend API, which also involved database design to ensure Normal-Form.

**Technology Delivery Engineer**

June 2022 - August 2022

Imperial College London

*London, GB*

- Provided technical Support for issues with devices across the university.
- Relevant skills learnt include PXE Network Building, hardware support, and troubleshooting various issues
- Employed over the university to help with a backlog of 3000 technical support issues.

## PROJECTS

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**WardWare: Wastesaver** - Currently building a React / Flask project with a focus on sustainability - designed to be a fridge stock management tool which will track use-by dates of purchases whilst helping users plan meals effectively, reducing food waste. This is my own project and I am completing this alongside my final year of studies. I have also developed a sudoku app that I can use on the tube with no ads and a better difficulty selection than those on the market.