

Chris Perceval-Maxwell (he/him)

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About Me

I'm finishing my undergraduate degree in Artificial Intelligence and Computer Science at Edinburgh University. Seeking software engineering / full-stack roles from August 1st, 2022 (preferably in Edinburgh, Glasgow or remotely). I've been a competitive swimmer for over a decade and have swam at a national level for 6 years – I have also represented Edinburgh University nationally and Scottish university students internationally. I'm a qualified lifeguard, certified in lifesaving, first-aid and the external defibrillator (AED).

Skills

| | |
|------------------------|---|
| Programming | Java, Python, Haskell, MATLAB, Bash |
| Web Development | HTML, CSS/SCSS, JavaScript, Node.js (with Express and Handlebars), Angular, REST APIs, Google Cloud |
| Other Languages | MySQL, PostgreSQL, Isabelle Proof Assistant, PDDL |
| Frameworks | Anaconda, NumPy, Pandas, Matplotlib / Seaborn, Scikit-Learn |
| Tooling | Git, Heroku, Docker, NPM |
| Software | Figma, Photoshop CS6 |

Experience

Dog Digital

Glasgow, SCOTLAND

WEB DEVELOPER (INTERN)

Jun. 2015

- I worked primarily with the back-end team as this was an area in full-stack I wanted to improve. During the course of the internship I also sat-in on team meetings.

Education

The University of Edinburgh

Edinburgh, SCOTLAND

BSC (HONS) ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCE

Sept. 2018 - May 2022

Predicted First Class

- OOP, Functional and Procedural Programming
- Machine Learning and Neural Networks
- Linear Algebra, Calculus, Probability and Discrete Mathematics
- Logic, Automated Reasoning and Proof Assistants
- Small and Large Team Projects

Extracurricular Activity

Edinburgh University Swimming and Water Polo Club

Edinburgh, SCOTLAND

COMMITTEE ROLES

Sept. 2019 - May 2022

Sponsorship & Fundraising Officer

- I negotiated with two local bars to sponsor EUSWPC for the academic year – this will fund paying for pool time, coaches, travel to competitions, etc.
- I led the club's Movember campaign 2 years in a row and created and a 2022 calendar featuring some of our club members, with all proceeds going to 'Health in Mind' – an Edinburgh based mental health charity. In total, we raised over £1600.
- I also led a week-long blood drive in association with GiveBlood4Good.

Social Secretary

- I organised online social events for our club, of over 150 members, during the height of the Covid pandemic.

Men's Captain - Club Squad

- I captained a squad of more than 20 swimmers for university league swimming matches.

Projects

Mechanising Applying Rules by Elimination, Proofs by Induction and Proofs by Cases in the Holbert Proof Assistant (Honours Project)

Edinburgh, SCOTLAND

THE UNIVERSITY OF EDINBURGH (SUPERVISED BY LIAM O'CONNOR)

Sept. 2021 - April 2022

[HASKELL](#) [HTML](#) 🌐 chrisjpm/holbert 🌐 Holbert Demo

- Holbert is a proof assistant for students with no prior experience in automated reasoning. It aims to be used in the classroom to aid the teaching of the foundations of programming languages.

Information Retrieval

Edinburgh, SCOTLAND

THE UNIVERSITY OF EDINBURGH

Sept. 2021 - Present

[PYTHON](#) [GitHub repos private, available upon request](#)

- Pre-processes text and creates a positional inverted index. Using the index, performs boolean searches, phrase searches, proximity searches and ranked IR based on TF-IDF. Also conducts IR evaluation, text analysis and text classification.
- Grade: **95.67% (A1)**

'Learn' Course Web-Page Redesign

THE UNIVERSITY OF EDINBURGH

  Prototype

- Improved UX for viewing grades on a course web-page.
- Grade: **70% (A3)**

Edinburgh, SCOTLAND

Sept. 2021 - Dec. 2021

Informatics Large Practical

THE UNIVERSITY OF EDINBURGH

   chrisjpm/inf3-ilp-cw1  chrisjpm/inf3-ilp-cw2

- A heat map to visualise the predictions of air quality sensor readings, partitioned into a regular 10×10 grid. And an application which calculates a flight path which visits as many of the sensors listed for that date as possible.
- Grade: **95% (A1)**

Edinburgh, SCOTLAND

Sept. 2020 - Dec. 2020

Swimming Relay Order Calculator

SHAWLANDS ACADEMY

          chrisjpm/Swimming-Relay-Order-Calculator

- Enters swimmers' details and personal best times through a form and select the requirements of a relay team. A report is generated on different combinations of swimmers and strokes with their total time sorted fastest to slowest.
- Grade: **100% (A1)**

Glasgow, SCOTLAND

Oct. 2017 - June 2018