Chris **Perceval-Maxwell** (he/him)

SOFTWARE DEVELOPER • FULL-STACK

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About Me

I'm currently an eHealth Developer at NHS Lothian. I graduated from Edinburgh University with a First Class Honours in Artificial Intelligence and Computer Science. I was a competitive swimmer for over a decade and swam at a Scottish national level for 6 years – I represented Edinburgh University in Scottish and British League matches; and Scottish university students in the 2019 Celtics Tournament.

Skills

Programming	Java, C#, Python, ObjectScript, Haskell
Web Development	HTML, CSS, JavaScript/jQuery, ASP.NET Core, Node.js, Angular, REST APIs
Other Languages	SQL/MySQL/PostgreSQL, Isabelle Proof Assistant, PDDL
Tools/Software	Git, IIS, SSMS, SSIS, SSRS, Figma, Justinmind

Experience

NHS Lothian *Edinburgh, SCOTLAND*

EHEALTH DEVELOPER *Aug. 2022 - Present*

`C#` `ASP.NET CORE` `HTML` `CSS` `JS/JQUERY` `SQL` `OBJECTSCRIPT` `GIT` `IIS` `SSMS` `SSIS` `SSRS` `FIGMA` `JUSTINMIND`

- At NHS Lothian I create applications for NHSL staff, ranging from nurses and doctors in hospitals to system administrators.
- We use a scrum methodology and plan our sprints in 2 week cycles. I have led many our sprint planning and retrospective meetings.
- I have gathered requirements from the client, managed the tasks and completed the majority of development for multiple applications.
- Projects that I have worked on have had a positive impact on the workdays of hospital staff. Notably, automating tasks that were previously completed by hand has sped up their workflow and mitigated human error.

Education

The University of Edinburgh *Edinburgh, SCOTLAND*

BSc (HONS) ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCE *Sept. 2018 - May 2022*

First Class
- OOP, Functional and Procedural Programming
- Machine Learning and Neural Networks
- Logic, Automated Reasoning and Proof Assistants
- Linear Algebra, Calculus, Probability and Discrete Mathematics

Extracurricular Activity

Edinburgh University Swimming and Water Polo Club *Edinburgh, SCOTLAND*

COMMITTEE ROLES *Sept. 2019 - May 2022*

Sponsorship & Fundraising Officer (2021/22)
- I negotiated with two businesses to sponsor EUSWPC for the academic year.
- I led the club's Movember campaign twice and created and a calendar featuring some of our club members. All proceeds went to 'Health in Mind', an Edinburgh based mental health charity. In total, we raised over £1600.
- I led the club in a week-long blood drive in association with 'GiveBlood4Good'.

Social Secretary (2020/21)
- I organised online social events for our club, of over 150 members, during the height of the Covid pandemic.

Men's Captain - Club Squad (2019/20)
- I captained my squad of 20+ swimmers for university league swimming matches.

Projects

Holbert Proof Assistant (Honours Project) *Edinburgh, SCOTLAND*

THE UNIVERSITY OF EDINBURGH (SUPERVISED BY DR. LIAM O'CONNOR) *Sept. 2021 - April 2022*

`HASKELL` `HTML` `CSS` ⬛ chrisjpm/holbert 🌐 Holbert Demo 📄 Thesis

- 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. I enabled applying rules by elimination, and writing proofs by induction and cases.
- Grade: **76% (A3)**

Informatics Large Practical *Edinburgh, SCOTLAND*

THE UNIVERSITY OF EDINBURGH *Sept. 2020 - Dec. 2020*

`JAVA` `GEOJSON` ⬛ 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)**

Swimming Relay Order Calculator

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`HTML` `CSS` `JAVASCRIPT` `NODE.JS` `EXPRESS` `HANDLEBARS` `MYSQL` `GOOGLE CLOUD` `HEROKU` 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)**

Swimming Relay Order Calculator