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EDUCATION

2014 – 2017 **University of Cambridge - BA in Computer Science**

A broad course, with topics covered by summer 2015 including but not limited to:

Programming in C and C++ Covered C and C++ on a course dedicated to them. Covered fundamental paradigms of both, pointers, references, structs, macros, good practices and more. C is also used on the Computer Design course to compile basic programs 'to the metal' of a RISC-V processor.

Semantics of Programming Languages Covered proving properties of the semantics of programming languages, including determinism, type preservation and rule consistency.

Concurrent and Distributed Systems A course on the principle of programming on concurrent systems. From resolving race conditions on multi-core CPUs using locks to achieving ACID properties with data manipulation using tools such as two-phase locking, optimistic concurrency control and timestamp ordering.

Computer Graphics and Image Processing Ongoing course. Covers how computer graphics are generated, from 3D rendering using raytracing and perspective projection to 2D image processing (covered later in the course).

2011-2013 **Cranbrook School**

A Levels: Maths (A*), Further Maths (A*), Chemistry (A*), Physics (A*) and Dutch (A)

Extended Project Qualification: "Is Scientific Research Justifiable?" (A)

2009-2011 **British School of Brussels**

AS Levels: French (B)

IGCSEs: Maths (A*), Double Science (A*A*) and German (A*)

GCSEs: Fine Art (A*), English Literature (A) and Language (A), ICT (A), Dutch (A), French (A*) and Drama (A)

EMPLOYMENT

June 2015 – September 2015 **Computer Science Intern at University of Cambridge Computer Lab**

- Collaborated with a team on *Pyland*, an educational game that teaches Python.
- Funded by the Broadcom Foundation and Raspberry Pi foundation.
- Rewrote the core engine to allow level creation in Python instead of C++.
- Worked on art, designed levels and challenges, and wrote the core story.
- Still in development at <https://github.com/pyland/pyland>.

October 2013 – October 2014 **Software Developer for Stellarise Limited**

- Developed an internal notification display that linked to Web Help Desk and N-Able.

- Deployed internal continuous integration system using Behat and Jenkins.
- Frequently took over customer support when support engineers were unavailable.
- Managed backend GNU/Linux servers, Squid, Apache and MySQL.
- Designed and programmed a web-application for a client. It is used to organise preventative maintenance requests complete with an online booking application.
- Became a full-time employee after a taster week during my gap year with no prior programming experience.

TECHNICAL SKILLS

- Can develop production level software using PHP, MySQL, JavaScript and HTML5
- Proficient in GNU/Linux and Windows operating systems.
- Familiar with Java, Python, C/C++, SystemVerilog, Prolog, ML, GameMaker-Studio and Yii.

OTHER PROJECTS

Hack Cambridge – Co-Founder

- First ever major hackathon for students in Cambridge, January 30th-31st 2015.
- Website at <http://hackcambridge.com>.
- Over 400 students taking part at the 24 hour programming and invention event.
- **Member of** a team of six students.
- Helped plan the event, planning details, ideas, set-up and layout.
- Negotiating sponsorship deals with potential partners ranging from multinationals to local companies.
- Contributing to website development and design using node.js.
- Contact team@hackcambridge.com if you are interested in getting involved!

Taleom

- Personal game project I am working on in GameMaker Studio.
- Top-Down 2D Zelda-like Action-RPG.
- Working on story, graphics, gameplay and programming.
- Still in active development.
- Started work on porting it to C++ to teach myself basic game engine design.

QUALIFICATIONS AND AWARDS

Microsoft Student Partner.

Completed Duke of Edinburgh Bronze, Silver and Gold award.

Cranbrook School leavers' award in Maths and Extra-Curricular Activities.

LAMDA Grade 8 Devised Performance (Passed with Distinction) and Acting (Passed with Merits).

ABRSM Grade 5 Piano.

HOBBIES & PASTIMES

Sports: Rowing (achieved wooden spoons!) very keen rock climber and runner.

Arts: Enjoy performing, drawing and doodling in my free time.

During my gap year at work in London, I was an enthusiastic member of KCL's Breakdancing Society!