

# Adam Cornforth

Lancaster University

<http://adamcornforth.me>

<https://github.com/adamcornforth>

Apartment 75 Islington Wharf

153 Great Ancoats Street

Manchester

M4 6DN

☎ 07534057842

✉ [adam@apcdesigner.com](mailto:adam@apcdesigner.com)

## Work Experience

- Summer 2015–Current **Web Developer**, *Mojofuel*, Manchester.
- Helped redesign & build the processing system for a major train ticket issuers headquartered in the Netherlands.
  - Consumed “BRFares” train fares API and developed bespoke TfL/Merseytravel/TfWM Network West Midlands/TfGM Metrolink/SPT fares API implementations for use on the ticket application form.
  - PHP/mySQL, Git, Vagrant, Jenkins, DeployHQ, Selenium, PHPUnit, Grunt.
- Summer 2014 **Web Developer**, *Mojofuel*, Manchester.
- Responsible for the creation of a “Digital Media Centre” CMS for a germany-headquartered global discount supermarket chain.
  - Performed maintenance and updates on a British train operating company’s website.
  - Development of a website for Rhug Estate <https://www.rhug.co.uk/>
- 2013-2014 **Web Developer**, *The Paper Cup Company*, Clitheroe.
- **Case Study** — <http://adamcornforth.me/tpcc>.
  - Design & development of an order tracking system for (>100) orders per month for bespoke printed cups – including creation of design briefs, upload and approval of artwork, order tracking, and payment gateway.
- 2013-2014 **Mobile Web Application Developer**, *Rocoru Creative*, Manchester.
- Prototyped a web-based mobile bidding app (using jQuery Mobile) which allowed administrators to create bids, set customer’s in-store credit, etc., and allowed users to place bids (with their winning bids awarding them in-store credit). The schema was later re-used in the final iPhone application.
- Summer 2011 **Assistant Web Designer**, *Workhouse Marketing*, Ribchester, (Summer Placement).
- Responsible for splicing, creating, and testing HTML emails that would render in nearly every email client (tested with Litmus).
  - Developed sites using Wordpress and modifying back-end PHP code on existing sites for the agency.
- 2010-2014 **Freelance Web Developer**.
- UK Hardware Limited: <http://easy-trim.co.uk>.
  - Lakes & Dales Meats: <http://lakes-dales.co.uk>.
  - Nigel’s Cutting Shop.

## Education

- 2012–2015 **Lancaster University**, *Software Engineering (BSc Hons)*.
- First Class Honours (1st), IET Accredited
- 2010–2012 **St. Mary’s College**, Blackburn.
- A-Level: Computing (A), Graphic Design (A), Media (B)
  - AS-Level: Photography (A) Critical Thinking (B), Mountain Biking Level 2 NVQ
- 2005-2010 **Ribblesdale High School**, Clitheroe.
- 7A/A\*, 7B

## Computer skills

<b>OS</b>	Mac OS, Linux/Unix, Windows	<b>Code</b>	PHP, C, Java, Python, SQL
<b>Type</b>	L <sup>A</sup> T <sub>E</sub> X, Microsoft Office, Markdown	<b>Misc</b>	HTML/CSS, JavaScript, jQuery Processing
<b>Software</b>	Sublime Text, Matlab, Photoshop	<b>Frameworks</b>	Laravel, PyroCMS, Symfony, CodeIgniter

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## Academic Achievements

Final Year **Smart Environment Toolkit**, *Grade: A, Languages: Java, PHP.*

Developed a portable, customisable toolkit that can be used to transform living and working environments into smart spaces that are aware of interactions and physical changes around them. The Smart Environment Toolkit (SET) utilised **embedded, programmable devices** (Java Sun SPOTs) to achieve its goal, and was configurable using a **web front-end** built using the Laravel 4 PHP framework and jQuery.

o **Project Features Video** – <https://youtu.be/Tc1kxDZV-o8>

**Recursive Descent Parser**, *Grade: A, Language: Java.*

Produced a top-down parser program built from a set of mutually recursive procedures, with each procedure being responsible for a production in a language's grammar. Used to verify if any supplied input is grammatically correct in terms of the language the program was built to recognise.

**Distributed Auctioning System**, *Grade: A, Language: Java.*

Designed and implemented a simple distributed auctioning system using Java RMI. Involved clients making requests to a remote server in order to browse, create, and bid on auctions. Implemented appropriate cryptographic authentication (public-key cryptography to negotiate the sharing of a secret symmetric key, and a symmetric key to encrypt all requests) and user access control. Further, the system was made dependable through passive replication, implemented using JGroups.

Second Year **Traceroute Implementation**, *Grade: A, Language: C.*

Developed my own version of the trace route tool that finds all the intermediate nodes up to a destination in C. Practiced my skills in sending RAW Sockets and ICMP packet requests.

**Recursive Minesweeper Cascading Algorithm**, *Grade: A, Language: Java.*

Developed a complex algorithm that mimics the “cascading” effect that occurs when you click on a square in minesweeper that has no bombs on it or on the squares surrounding it. Practiced my OOP principles and recursive algorithm definitions in this exercise.

**6-Letter Cipher Python Assignment**, *Grade: A, Language: Python.*

Python assignment where I had to accept user input to allow encoding and decoding of a message encrypted using the 6-letter cipher. I made extensive use of list comprehension, python list generators and OOP in this exercise.

First Year **Rainfall Analysis**, *Grade: A, Language: Java.*

Java Application created that parses a weather station's rainfall data and presents it using charts & tables in an easy to use and understand user interface.

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## Bio

About Me From a young age I have always been highly curious and have always taken great delight in information discovery and learning through working with others or through independent study with Internet use and IT.

The Internet and how you can define a business or yourself using the web has always interested me – and I have realised that experience in real world scenarios is where I thrive and learn. With this in mind, I have since made a large effort to work with businesses in the area to get them out there using unique, refreshing and memorable ideas.

Further, you'll often find me out cycling or riding my Gilera Runner in the beautiful Ribble Valley, perusing for spots to photograph or go walking in!

On the Web Portfolio: <http://adamcornforth.me>

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LinkedIn: <https://www.linkedin.com/pub/adam-cornforth/59/247/251>