

# James-David Carr

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## EDUCATION

**Imperial College London** *Masters of Engineering Computing - Expected Graduation: June 2016*

**First Year** Average Grade 2:1

**Second Year** Average Grade 2:1

**2004 - 2012: Whitgift School, South Croydon**

A2 Mathematics (A\*), A2 Further Mathematics (A), A2 Physics (A), A2 Chemistry (A)

10 A\*/A GCSEs

## Languages

Fluent in English and French. Highly proficient in German. Basic skills in Mandarin Chinese.

## COMPUTING SKILLS

**Programming Languages** Java, Python, C/C++, JavaScript, HTML, CSS, D, Haskell, SQL

**Tools** Eclipse, IntelliJ, PyCharm, git, JUnit, LaTeX

**Platforms** Linux (Ubuntu, Red Hat Enterprise Linux, Fedora, CentOS), Mac OSX, Microsoft Windows

## EMPLOYMENT

**June - September 2014: Amazon**

Developed both client and server side software for feature allowing customers to cancel video orders online.

Increased testing and refactored components of backend software stack.

Gained experience in writing scalable and durable software.

**July - September 2013: Compagnie Generale de Geophysique (CGG)**

Extended knowledge of the geophysical industry and Digital Signal Processing.

Broadened knowledge of upkeep and support of large-scale, highly parallelised, distributed system.

Gained insight into technical challenges faced by scaling computational infrastructure.

## PERSONAL PROJECTS

### Hackathon Competitions

Member of winning team in both the Hackin' The City (March 2013) and the London Facebook hackathon (April 2013).

Placed 2nd at the Facebook Global Hackathon Finals in California in November 2013.

### Independent Ventures

Author of the D Language Standard Library Levenshtein distance function which improved memory usage significantly compared to previous implementation.

Submitted pull requests to fix issues in HTTPie, an open source HTTP client written in Python.

Developing a website to provide challenges for intermediate programmers to improve abilities. *Ongoing*

## AWARDS

**Bronze/Gold Duke of Edinburgh Award**

**Lord Lieutenants Award** Awarded for excellent dedication to my local Air Cadet Squadron.

## EXTRACURRICULAR

### Sports

Captained school's cross country team to most successful season on record.

Competed in several adventure running races and completed Tough Guy multiple times.

### Air Training Corps

Trained and led a team of cadets to facilitate the running of the Squadron.

Rose to the highest rank and was the first Cadet in the London area to be awarded the Master classification.

Commanded up to fifty cadets at biweekly meetings.