

Joe Malt

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EDUCATION

University of Cambridge, Cambridge, UK — **B.A. Computer Science**

October 2016 - June 2019

First and second year results: 2.1

King Edward VI Camp Hill School for Boys, Birmingham, UK

September 2009 - June 2016

A Level: **5 A* grades** (Maths, Further Maths, Chemistry, Physics, General Studies), plus an Extended Project at **Grade A***

GCSE: **10 A* grades** including Maths, English and Sciences

Other qualifications: **Grade A** in FSMQ Higher Level Additional Maths (taken alongside GCSEs)

EMPLOYMENT HISTORY

Software Engineering Intern, Yelp (San Francisco, US)

June - September 2018

Worked on the Stream Processing team. Investigated ways of adding Python support to the existing Java-based big data infrastructure. Primarily worked with the Apache Flink and Beam frameworks, plus Docker and Apache Mesos.

Software Engineering Intern, Yelp (Hamburg, Germany)

June - September 2017

Worked on dashboards and reporting tools to inform advertiser clients about the performance of their campaigns. Received a prize in the company-wide hackathon for an online team directory.

Also developed and maintained batch data processing jobs to exchange data with other companies.

TECHNICAL SKILLS

- **Python:** self-taught, intermediate proficiency
- **Java:** learned at university, intermediate proficiency.
- **Amazon Web Services:** basic proficiency
- **C:** self-taught, basic proficiency
- **MySQL:** self-taught, basic proficiency
- **Electronics** (self-taught and taught at University)
- **Linux** system administration (self-taught, intermediate proficiency)

AWARDS

- Top 20 nationally in the *2013 Biology Challenge*
- Consistent Gold awards in the *UKMT Maths Challenge*
- Finalist in the *2014 RAF Schools Aerospace Challenge*
- Semi-finalist in Young Rewired State *Festival of Code 2015*

OTHER SKILLS

- **English:** native speaker
- **German:** Intermediate (B1 level) proficiency
- Full clean UK **driving licence**
- **Live audio** technology: intermediate proficiency

COURSES AND WORK EXPERIENCE

CyberFirst Advanced, University of Surrey

August - September 2016

UK Government-sponsored course in C programming, network administration and cyber security.

Department of Computer Science, University of Birmingham (*work experience*)

July 2014

Worked on automated text processing, using Python to filter spam out of a database of internet comments being used for an AI study.

PROJECTS

WEBplug (Python, JavaScript, C, Raspberry Pi, SQLite)

August - September 2016 (Team project) | github.com/JoeMalt/webplug-ui

A Web-based Internet-of-Things plug socket controller, with support for scheduling, permissions management and arbitrary scaling. I worked on the Python front-end, which communicated over TCP sockets with a back-end written in C.

PrettyRoute (PHP, JavaScript, Google APIs)

August 2015 (Team project) | github.com/teamscreamingsquaredinosaur/prettyroute

A route planner that finds the scenic route from A to B, via customisable points of interest. This project reached the semi-final stage at the YRS Festival of Code 2015. I wrote the code to display the output from our route-planning algorithm on a Google Map, and also worked on internationalisation support.

IsItWeekA (PHP / Python, MySQL, Google Analytics)

July 2012 - July 2016 | github.com/JoeMalt/isitweeka

A site for students at my school to check whether the current week is Week A or Week B on the timetable. The site also provides a JSON API for timetable data. It receives around 150 unique visitors per week. I developed this in PHP then rewrote it in Python to learn the Flask web framework.

Note: since leaving school I have handed over the domain name isitweeka.com to another developer.

yzReact (PHP, MySQL, JavaScript)

July 2012 | github.com/JoeMalt/yzReact

A Web-based reaction-timing application I built to support a psycholinguistics study at the University of Birmingham.