Harry Edward Howarth

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Personal Profile

An ambitious Computer Science 3nd year undergraduate with a mathematical, scientific and programming background, strong interpersonal and the ability to communicate clearly. A hardworking asset to any team able to take up all roles including team leader, as demonstrated in multiple team based situations from working in Agile software teams during my Year in Industry with a world leading engineering multinational, to University projects to sports teams.

Education

- MComp Computer Science with Employment Experience
    - University of Sheffield *2014-2019* (Four academic + one industrial year)
    - 1st achieved in 2nd year of study
    - 1st expected overall
    - Year in Industry with MBDA working as a Software Engineer in the Software Mission Planning and Control department.
    - To see a complete module list for my first three years of study please visit my Linkedin - https://www.linkedin.com/in/harry-howarth-8bb78ab3/
    - Dissertation - Sound Event Detection for Smart Cars - http://www.cs.tut.fi/sgn/arg/dcase2017/index

- A Levels - Royal Grammar School *2012-2014*
    - Maths (A) , Economics (A) & Chemistry (B)
- GCSE - Royal Grammar School *2007-2012*
    - A* - Maths, Physics, Chemistry, English Literature, Geography, History
    - A - Economics, Biology, English. B - French.

- Google Taught Udacity Course - Developing Android Apps
    - The source code for my app can be found at - https://github.com/HarryEH/Udacity-APP-SquadManager.

Work Experience

- MBDA, Bristol (Filton) - Undergraduate Software Engineer - (2016-17)
    - MBDA is a multinational defence company owned by BAE Systems, Airbus Group and Leonardo S.p.A.
    - Software Mission Planning & Control
    - SPEAR 3 - new tech
    - MCM-ITP
    - French team
    - Flying start challenge
    - *Details to follow after year finishes*
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- Thomas Walling Primary Academy - Volunteer *(2012 - 2013)*
  - Working either alongside the teacher or on a one-to-one basis with the Year 4 pupils, I helped the students to develop their skills in English and Mathematics. This improved my communication with staff and pupils alike and increased my confidence in my own ability to work with other people.

Skills & Abilities

- Programming Languages & Testing
  - Java, C++, C#, Matlab (& Simulink), Ruby, Python, Haskell.
  - Web Development - used the Ruby on Rails framework and used HTML, Haml, CSS and Sass alongside Javascript.
  - Unit testing with JUnit and Rspec.
  - Automated acceptance testing with Cucumber HTML.
  - Coding and testing code complies to coding practices and standards - eg MISRA C++ 2008 during Year in Industry. Experience with static analysis tools.
  - Android application development using Java & XML
- Agile Software Development
  - Extreme Programming (XP) - university group project experience
  - SCRUM - experienced in an engineering team at a world leading firm
- Developing Service Oriented Architecture frameworks including RESTful architectures. Large part of my Year in Industry was spent working on such a framework that was not just up to 'industry standards' but also had to be functional in a safety critical environment.
- Experience with Linux (Ubuntu & Red Hat Enterprise), OS X & Windows (including Office suite of products).

Projects

(see https://www.github.com/harryeh for more)

- Degree Classification App (Android)— *Java & XML*
  - Made for students to simplify the calculation of their grades and degree classification. Currently on the Google Play Store - https://play.google.com/store/apps/details?id=com.harryehowarth.grademydegree
- Website for a History Organisation 🛡️ — *Ruby on Rails*
  - Prize winners in this full stack web development university group project for a real client. We were hired, after the module, by the client to release the website - http://www.villagememories.org.uk
- Optical Character Recognition 🛡️ — *Python 2.7*
  - Data preprocessing, feature extraction, classifier design and efficient learning.

Other

- Interests: Avid cricketer (offspinner, LH bat); Football season ticket holder; Walking.
- Clean UK Driving License since June 2013.
- High level UK Government Security Clearance