

Andrew Smith

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Education

2013 - 2017 **BSc(Hons) Artificial Intelligence & Computer Science**, *Expected 2:1*, The University of Edinburgh.

Some of the courses I have studied have covered the following areas:

- Language Processing
- Compilers
- Vision Systems and Robotics
- Programming Languages

2011 - 2013 **Scottish Advanced Highers & Highers**, *Madras College*, St. Andrews.

- Advanced Higher Results – A,B
- Higher Results – A,A,A,A,A,B

Experience

June-September 2016 **Intern Developer**, *The ID Co. (Formerly known as MiiCard)*, Edinburgh.

- Developing graph analysis software to be used in the system
- Working in Scala on a Spark cluster for the analysis
- Designing the system architecture
- Managing access and configuring the cluster
- Creating a data visualisation using the D3 library for Javascript

2015 - 2016 **Team Leader**, *EUSA Retail*, Edinburgh.

- Cash handling
- Managing a team
- Rotating and managing stock

During the summer of 2013, I did a week of work experience at Waracle Ltd. There, I did software testing on their next release and learned about the development process. In the summer of 2014, I did a week at INPS, where I assisted in bug fixing on their web product.

Technical Skills

Python I am most comfortable using Python. My largest projects have been done in Python. These large projects include a robot football tournament, a start-up name generating Twitter bot, a group playlist generating app that used location beacons to detect nearby party goers and a legal argument parsing system. The robot football tournament was a two aside game with robots running autonomously from a vision system. This was a team project, I focused mostly on the vision system but assisted where I can in other parts and received an A for that project. Code for these projects can be found on my GitHub account:
www.github.com/A-W-Smith

- Scala** During my time at the ID Co, I used Spark in Scala for big data analysis. This was a graph analysis and visualisation project that is to be integrated into their system. I also used this in two courseworks in university, a parser for an invented programming language and a markdown, latex, html parser.
- Java** I have built a compiler for a subset of C as well as several smaller projects whilst at university, such as a cruise control system. The C compiler had to handle any types of input, valid or not, compile it into Java byte code and then execute this code, providing it was valid code.
- Other Languages** I have also worked on projects using C, Prolog and Haskell. I have a working knowledge of these languages as well as SQL and would like to improve my skills further for these.

Other Achievements

- For my final year at university, I am Informatics School Vice Convener. I want to represent my peers and improve their time at university.
- During my time at Madras College, I was a peer tutor for a second year computing class and for a student with learning difficulties who was needing help with their Digital Media class.
- I set up and ran a Standard Grade Computing after-school revision help group.
- In my fifth year of secondary school I built a review website for the Dundee University English Literature department.

Interests

- Hackathons** So far I have made it out to two hackathons and have won prizes at both. I enjoy the challenge of creating a project with a small group of people in a short space of time and I learn a lot from them. The code for my hackathon projects can be found on my Github profile referenced previously.
- Film** I have always had a love of film, watching from a very young age. In my second year, I was the treasurer of Edinburgh University Film Society. In third year, I was in charge of the quizzes and help set up and project at events. Throughout my time at the society I also maintained the website.
- Music** I have played guitar for a long period of my life and piano to a lesser extent. I've played in several school talent shows and I have completed a Scottish Higher level performance module.

References

James Varga, CEO, The ID Co.

- james.varga@theidco.com

Prof. Jane Hillston, Personal Tutor, University of Edinburgh

- jane.hillston@ed.ac.uk