

ARTHUR CECCOTTI

✉ arthur.b.ceccotti@gmail.com

☎ 07578 555334

Personal Statement

A senior year Software Engineering student with experience at IBM, fluent in multiple languages. Knowledgeable of Agile Development, Java web applications, data mining for analytics, low level C & ARM assembly. Looking for pursuit of a technical graduate position to further improve my problem solving and teamwork skills.

Education

University of Manchester, *BSc Software Engineering*

2012 – 2016

Expected result: **First class**

First year result: **78.6%** Second year result: **80.6%**

Team projects: Bus Routing Management System, Webpage Creator Tool

Solo Projects: Music Player written in ARM Assembly, Python Chat Room,
Virtual CPU Design, OpenGL Solar System Simulation

Currently working on my final year project which involves the team development of a RAM based streaming database on the massively multi-core Spinnaker hardware, used to simulate the human brain.

Fondazione Torino, *Secondary School*

2008 – 2012

Final result: **91.0%** - highest grade in the year

Attended an Italian school in Brazil, focused on science studies and languages.

Presented honorable thesis on the topic of *Infinity and the Expansion of the Universe*

Experience

IBM – Hursley UK Labs, *Software Engineer & Data Analyst Intern*

July 2014 – July 2015

- Improved quality of the *IBM WebSphere Liberty Profile* by analysing the results of years of automated tests, highly increasing platform coverage and producing predictive models, which enabled smarter code deliveries and thorough tests.
- Collaborated with a large team of developers across the globe, following the principles of Agile and Test Driven Development, which strongly enhanced my teamwork skills. By improving the testing strategy, we were able to quickly resolve defects on different platforms and Java Virtual Environments, which allowed the product to reach full JavaEE 7 compatibility.
- Developed and maintained the *Analytics Infrastructure*, a Java web application for collection and visualization of code delivery patterns and test data. This allowed the reduction of average build times by over 5 hours through examination of hardware usage patterns and targeted testing. Given my determination, the tools I built are now being extensively used internally for quality assurance of 4 other software products.

Makira Records, Website Developer

Oct 2013 – Jan 2014

- Coded a commercial website for Makira Records (www.makirarecords.pl), a Polish record label, highly increasing its track sales and online presence. Involved frequent communication with an international client, given steep requirements.

University of Manchester, Student Ambassador

Jan 2013 – July 2014

- Represented the Faculty of Computer Science by guiding students around the campus and engaging them in various activities. This experience has firmly developed my presentation and improvisation skills.

Technical Skills & Personal Projects

Java (3 years) & Android (1 year)

- Field experience with development of JavaEE web applications on *IBM Liberty Profile*, JUnit testing, concurrency control & multi-threading, REST, generics, polymorphism. Projects: Android expense tracking app, Android Regex game, Sudoku solver.

C (2 years)

- Low level I/O on massively multi-core hardware, OpenGL, embedded systems, memory management, recursion, dynamic allocation, pointers. Projects: Arduino LED cube, Arduino game console, OpenGL first-person shooter.

ARM Assembly (2 years)

- RISC architecture, Interrupt Service Routine, low level memory management, conditional control & looping, interpreting, FPGA. Project: ARM Music Player.

SQL (2 years) & IBM SPSS Modeler (1 year)

- Big data mining, graphical visualization using *IBM RAVE*, DB2, streaming databases. Project: Cheese rating application.

Python (2 years)

- OOP, socket programming, I/O, pyNN for Neural Network simulations. Projects: Spinnaker Neural Network simulations, Raspberry Pi remote controlled robot.

Communication & Teamwork

Fluency in *English, Portuguese* and *Italian*. Intermediate level of *Spanish*. Basic *Mandarin*.

John Keble Primary School, Computer Science Teacher

July 2014 – July 2015

- Experience teaching primary school children the principles of computing, while organizing activities and sessions with a team of educators.

University of Manchester

- *Male Captain of the Dodgeball Society* Sep 2013 – Sep 2014
Role of promoting events, organizing tournaments and coaching team during play. I had to ensure the society's welfare by discussing relevant decisions with the committee.
- *PASS Leader (Peer Assisted Study Sessions)* Sep 2013 – Sep 2014
In charge of teaching, assisting and guiding a group of students over the year.