

ARTHUR CECCOTTI

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Core Skills

Broad development knowledge of *Java* in enterprise software for REST communication (*JBoss*, *WAS Liberty*), database querying (*Hibernate*), messaging & integration (*Apache Camel*), data encryption (*Voltage*) and unit testing (*JUnit*). This knowledge has been tested during my jobs at IBM and American Express.

Hands-on experience with *JavaScript* (*NodeJS* & *React Native*) and *Python* while working on personal projects ranging from mobile apps, Raspberry Pi programs, games and contributions to open-source repositories, which can be found at github.com/gmtuca.

Education

University of Manchester – *BSc Software Engineering* Sep 2012 – July 2016

First-class with honours – result: 79.0%

Performed undergraduate studies in Manchester, the heart of Computer Science, focusing on backend Software Development and Algorithms.

Final year project: development of a Database Management System in the *SpiNNaker* architecture, a research-level hardware component made of thousands of processors with aim of simulating human brain activity. This involved collaboration with the *Human Brain Project*, an international team funded by the *European Research Council* and the low-level *C* & *ARM assembly* application written by me accounted for complex issues such as concurrency, shared resources and unreliable packet exchange. My project's open-source repository can be found at git.io/v11aS, in addition to the dissertation at git.io/v11r5.

Fondazione Torino – *Secondary School* Sep 2008 – July 2012

GPA 5.0 – result: 91.0% (top 5% of the year)

Attended an Italian school in Brazil, focused on science studies and languages. Presented honourable thesis on *Infinity & the Expansion of the Universe* to a board of examiners and over 30 spectators.

Experience

American Express – Technical Graduate

Sep 2016 – present

Software Developer at the *International Issue Management* team, writing and managing a JBoss application for data extraction, analytics and reporting of Operational Risk Events. During this time I have integrated the application with 5 different internal data sources for extraction, adding up to a total of over 10,000 database rows linking to risk events, representing an increase of 150% since I joined. This allows for fine-grain risk management reporting, fast remediation and prevention of issues, with potential to save the company millions of dollars. In addition I highly improved security of the enterprise application by implementing end-to-end encryption on sensitive data.

IBM – Software Engineer Intern

Sep 2014 – July 2015

Situated in the *IBM WebSphere Application Server (WAS)* team, my responsibility was to improve quality of the product by producing predictive models and analysing the results of years of automated tests. My work consequently resulted on an increase of the number of supported platforms by 15% and enabled smarter code deliveries for the team through targeted testing, resulting on an average of 99.7% test passrate across all platforms.

The role involved developing a Java application server for collection and visualization of code delivery patterns and test data. I collaborated with a large team of developers across the globe, following Agile principles and Test Driven Development. By improving the testing strategy, we were able to quickly resolve defects on different Operating Systems and Java Virtual Machines, which allowed the *WAS Liberty Profile* product to reach full JavaEE 7 compatibility, as a result of my contribution. This application is now being widely used by different teams at IBM for internal purposes.

University of Manchester – Student Ambassador

Jan 2013 – July 2016

Represented the *Faculty of Computer Science* by guiding prospective students and parents around the campus, in addition to engaging them in various activities. The role also involved assisting with undergraduate recruitment, organizing visit days and presenting topics to the candidates.

Communication & Teamwork

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

John Keble Primary School, Volunteer Teacher

Jan 2013 – July 2016

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

Manchester Dodgeball Society – Team captain & referee

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 financial and marketing decisions with the committee. I am a certified referee in the UK and volunteered during the *2014 Dodgeball World Cup* in Manchester, with the participation of over 20 international teams.