ARTHUR CECCOTTI

✉ **arthur.b.ceccotti@aexp.com**   **07578555334** ☏

Core Skills

Certified Java developer with broad experience in application servers (*JBoss*), database querying (*JPA*), messaging & integration (*Apache Camel*), data encryption (*Voltage*), unit testing (*JUnit*) and deployment to cloud infrastructure (*PaaS & Splunk*). This knowledge has been tested during my jobs at IBM and American Express.

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

Experience

American Express – *Technical Graduate*   Sep 2016 – present

- Developer at the *International Issue Management* team, writing and managing a *JBoss* application for data extraction, analytics and reporting of *Operational Risk Events* (OREs). Performed releases of such application in new *PaaS* infrastructure.
- Built multiple extraction and automation tools on data sources including *Rally*, *ServiceNow, CAR/AIM, Archer & Sharepoint sites (Globestar Engagements* and *iSquared).* This allowed saving of hundreds of monthly hours of manual operations.
- The fine-grain, valuable data produced by my tools has been used to prevent and remediate operational risks, with potential to save the company millions in revenue.
- Highly improved security of the application by implementing end-to-end encryption on sensitive data using *Voltage.*

IBM – *Software Engineer Intern*   Sep 2014 – July 2015

- Responsible to improve quality of the *IBM WebSphere Application Server (WAS)* by producing predictive models and analysing the results of years of automated tests.
- Developed a Java application for collection and visualization of code delivery patterns and test data, allowing for quick resolution of defects on *WAS* across different Operating Systems and JVMs.
- As a result of my work the number of supported platforms increased by 15%, with an average test passrate of 99.7%. Consequently *WAS Liberty* became the first closed-source application server in the market to reach full JavaEE 7 compatibility.

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.

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%)

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.

Certificates

- Oracle Certified Associate (1Z0-808) – Java SE 8 Programmer I   Feb 2017
  Certificate exam result: 92.5%

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.