ARTHUR CECCOTTI

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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*** *& **Mockito***) and deployment to cloud infrastructure (***PaaS*** *& **Splunk***). This knowledge has been tested during my jobs at **IBM** and **American Express**.

Hands-on experience with low-level ***C*** & ***ARM assembly***, ***JavaScript*** (*NodeJS*) and **Python** 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.

Work Experience

American Express – *Technical Graduate*

Global Network Authorizations (GAN)   March 2017 – present

- Developer and tester in *GAN*, the first point of contact and most critical application in the Amex payment system.
- Role involves handling incidents, automated file transfers and coding changes to message specifications according to business needs.
- Implementation changes written by me currently run in tens of thousands of daily transactions, in multiple markets, under a 99.9999% availability platform. This involved frequent communication with an international, large-scale Agile team.

International Issue Management (IIM)   Sep 2016 – March 2017

- 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 high priority 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

- Software engineer in the *IBM WebSphere Application Server (**WAS**)* team with responsibility of improving quality of the product by producing reports, building 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 and increased reliability of *WAS* across different Operating Systems and Java Virtual Machines.
- As a result of my work the number of supported platforms increased by 15%, with an average test passrate of 99.7% and build times were reduced by over 5 hours through targeted testing. Consequently *WAS Liberty* became the first closed-source application server in the market to reach full JavaEE 7 compatibility.

Certifications

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

Education

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

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

- ***First-class*** *with honours* – result: **79.0%**
- Main areas of focus: Algorithms, Backend development, Security & Networks.
- Final year project: development of a low-level *Database Management System* on *SpiNNaker*, a hardware component made of *thousands of processors* originally used to simulate *human brain* activity. The research project, funded by the *European Research Council*, had to account for complex issues such as concurrency, shared resources and unreliable packet exchange. The open-source project 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.

Additional Responsibilities

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.
- 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.