

ARTHUR CECCOTTI

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Core Skills

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

Intermediate experience with low-level **C**, **ARM assembly** and **JavaScript**.
Open-source contributions can be found at github.com/gmtuca.

Work Experience

American Express, UK – Software Engineer

International Issue Management (IIM)

Aug 2016 – present

- Engineer at the *International Issue Management* team, building a **JBoss** application for data extraction, analytics and reporting of operational issues. Significantly reduced infrastructure costs, enhanced monitoring capabilities and improved security by implementing end-to-end encryption. This involved frequent communication with an international, large-scale **Agile** team.
- The fine-grain, valuable data collected and produced by my tools has been used to prevent and remediate high priority risks, with **potential to save the company millions in revenue**.

Global Network Authorizations (GAN)

Sep 2016 – July 2017

- Developer in *GAN*, the first point of contact and **most critical application in the Amex payment system**, which handles the flow transactions.
- Implementation changes written by me currently run in **thousands of daily transactions**, in multiple countries, under a 99.9999% availability Java platform. This resulted on revenue generation of hundreds of thousands of dollars.
- As a side project, proposed and developed Java Excel Mapper (**JEXM**), the soon-to-be **first mid-large scale Open-Source project at American Express**.

IBM, UK – 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 Java EE 7 compatibility**.

Certifications

- *Oracle Certified Associate* (1Z0-808) – Java SE 8 Programmer I Feb 2017
Certificate exam result: **92.5%**
- *Oracle Certified Professional* (1Z0-809) – Java SE 8 Programmer II Oct 2017
Certificate exam result: **83.0%**

Education

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

University of Manchester, UK – *BSc Software Eng.* Sep 2012 – July 2016

- **First-class with honours** – result: **79.0%**
- Final year project: development of a *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 project and dissertation can be found at git.io/v11aS and git.io/v11r5 respectively.

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

- **GPA 5.0** – result: **91.0% (top 5%)**
- Presented honourable thesis on *Infinity and the Expansion of the Universe* to a board of examiners and over 30 spectators.

Additional Responsibilities

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 UK referee** and volunteered during the *2014 Dodgeball World Cup* in Manchester, which had participation of over 20 international teams.