ARTHUR CECCOTTI

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Core Skills

Oracle Certified Professional **Java** & **Kotlin** engineer with experience in Microservice Architectures (**Spring Boot**), database querying (**Hibernate**), async messaging (**Kafka**), security & authentication (**RSA, AES, OAuth 2, JWT**), unit testing (**JUnit** & **Spock**) and deployment to cloud infrastructure (**RedHat Openshift**). 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 found at: github.com/gmtuca and github.com/americanexpress

Work Experience

American Express, UK – Software Engineer

Legal & Regulatory Technical Team (L&R)   Aug 2017 – present

- Role of building a Microservice based system for analytics & reporting of financial/legal risks, customer impact and money laundering prevention.
- 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.**
- As a side project, proposed & developed *Java Excel Mapper*, the **first Java Open-Source project at American Express** (https://github.com/americanexpress/jexm).

Global Authorizations Network (GAN)   Sep 2016 – July 2017

- Back-end developer in *Global Authorizations Network*, the first point of contact in the Amex payment system and **most critical application within it.**
- Implementation changes written by myself currently run in **thousands of daily transactions**, in multiple countries, under a 99.9999% availability platform. This resulted on revenue generation of millions of dollars.

IBM, UK – Software Engineer Intern   Sep 2014 – July 2015

- Situated in the *IBM WebSphere Application Server (WAS)* team, I took part developing an application for collection and visualization of code delivery patterns and test data.
- Followed **Agile** and **TDD** methodologies, increasing reliability, performance and test coverage of the *WAS Liberty Profile* across different Operating Systems & JVMs.
- 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** and **Portuguese**. Intermediate level **Italian** and **Spanish**.

University of Manchester, UK – BSc Computer Science   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 40 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 practised such role during the *2014 Dodgeball World Cup* in Manchester, with participation of over 20 international teams.