

ARTHUR CECCOTTI

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Certifications

- Oracle Certified Associate (1Z0-808) – Java SE 8 Programmer I Feb 2017
Exam result: **92.5%**
 - Oracle Certified Professional (1Z0-809) – Java SE 8 Programmer II Oct 2017
Exam result: **83.0%**
 - Certified Kubernetes Application Developer (CKAD) in progress
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Experience

American Express, UK

Sep 2016 – present

Software Engineer – Payment Network

Java developer within the Amex Payment Network, the first point of contact in the transaction system and most critical application within it, as part of an international, scaled-Agile team.

Design decisions, security implementations and coding changes written by myself run on **hundreds of millions of daily transactions**, in multiple countries, under an availability-critical platform.

Stepped in as **acting-senior engineer** in the absence of one, leading a scrum team towards success, while taking part in architectural decisions.

- Proposed & developed the **first Java open-source project at American Express** at github.com/americanexpress/jexm.
- Hosted multiple speeches and knowledge sharing sessions on the topics of **Kotlin, Java 8** and **Reactive programming**
- Interviewed up to 50 prospective colleagues, while representing the company in multiple national and international events
- Placed 3rd on the company-wide hackathon in 2018, after conducting presentation to thousands of colleagues, including CTO & senior leadership

Technologies used include:

- **Java, Spock**, back-end **Kotlin & JavaScript, Kubernetes, Vertx, Spring Boot, Kafka, Couchbase, Hibernate**
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IBM, UK

Aug 2014 – July 2015 (1 yr)

Software Engineer Intern– IBM WebSphere

Back-end development of NodeJS & Java web applications for collection and visualization of test results of the *WebSphere* product across different *Operating Systems & JVMs*.

Followed Agile, **TDD** and **continuous delivery** methodologies within a global team, increasing reliability, performance, targeted testing and test coverage of *WAS Liberty Profile*.

- Volunteered **teaching Computing to local primary school**, helping inspire and shape the minds of upcoming generations of developers. (Fun fact: 4 year old children love poking laptop screens thinking they are iPads!)
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Education

- Fluency in **English** and **Portuguese**. Intermediate level **Italian** and **Spanish**. Used to study **Mandarin**, which I now completely forgot.

University of Manchester, UK
BSc Computer Science

Sep 2012 – July 2016

- **First-class with honours** – result: **79.0%**
- Excelled in studies of Complexity Theory, Algorithms, Computer Networks, Microcontroller Architecture in **C** & **ARM Assembly**.
- Final year project: development of a *Database Management System* on *SpiNNaker*, an experimental hardware component made of **thousands of processors** used to **simulate human brain activity**. I had to account for complex issues such as low-level concurrency, shared resources, 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.
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Additional Responsibilities

Manchester University Dodgeball Society
Team captain & referee

Sep 2013 – Sep 2014

- Role of discussing relevant financial and marketing decisions within an elected committee, organizing events & coaching team during play.
 - 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.
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Side projects

- Development of Android dating app on **React Native** frontend and **NodeJS reactive back-end** making use of **rxjs** and **MongoDB**
- Open-source contributions to the low-level C & Python *SpiNNaker* project, funded by the *European Research Council* – github.com/SpiNNakerManchester
- Built my own **home automation** orchestrator & VPN server on a **Raspberry Pi**