

Emanuele Rossi

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EDUCATION

Imperial College London, London — *BEng in Computer Science*

OCTOBER 2015 - JUNE 2018

Currently ranked among the **top 5 students in a class of 140**, with an average score of 84.6% (First Class Honours).

Placed on **Engineering Dean's List**.

Won the **President Undergraduate Scholarship**, a scholarship based on merit and awarded to only 112 people out of the ~2600 first year Imperial students.

PERSONAL PROJECTS

YouNews — 2016

A web app that notifies subscribers when they are mentioned in the news.

Event-Driven system based on a **microservices architecture** that makes use of **Apache Kafka** as the mean of communication between services. Every microservice has its own **Docker container** deployed on **AWS EC2**. Group project, Python, PostgreSQL.

Low Level Projects — 2016-2017

Assembler, disassembler and emulator for a subset of the ARM11 architecture. Group project, C

Full stack **compiler** for a C-like language. Additional support for classes, inheritance and a mark and sweep **garbage collector**. Group project, Scala

Unix-like Operating System. Full implementation of threads scheduling, user programs and virtual memory. Group Project, C

CMS-Downloader — 2015

Web app which provides the users of the Italian training platform for IOI (International Olympiads in Informatics) with a simple method to download all their content in that website as a zip file. NodeJs, Express, JQuery

SKILLS

Advanced: Java.

Intermediate: C#, C++, C, Haskell, Python (and Django), Bash, JavaScript (and Node.js), TypeScript, and Web Markup Languages.

Experienced with: Kafka, SQL Databases, Docker, JUnit, Mocking Frameworks, TDD, Git.

WORK EXPERIENCE

Google, Mountain View — *Incoming Software Engineering Intern*

JULY - OCTOBER 2017

I will be working in the **Google Play Team**.

G-Research, London — *Software Engineering Intern*

JULY - OCTOBER 2016

Developed a full stack **monitoring service** for a distributed system based on a **microservices architecture** that makes use of **Apache Kafka**. C#, .Net, NUnit, Kafka, ProtoBuf, Windsor, Owin, REST, Swagger, NSwag, Aurelia, AngularJs.

Praxism, Edinburgh — *Intern*

AUGUST 2014

Analyzed and reviewed how an **Identity Management application** worked.

Found **security vulnerabilities** in a Praxism app and suggested ways to improve it.

Supported a **consulting engagement** at Scottish Widows.

AWARDS AND ACHIEVEMENTS

Storytellers Of Excellence

SEPTEMBER 2016 - CURRENT

Spoken to more than 500 students cumulatively as Co-Founder of the 'Storytellers of Excellence' (SoE) project, an initiative which brings a group of students that were born in my hometown, and are now studying in world class universities, to speak at high schools all around Italy. Our objective is to make students aware of the academic, industrial and social opportunities available to them in 2016, by highlighting that hard work beats talent when talent doesn't work hard.

Bronze medal at OII

SEPTEMBER 2014

Won a bronze medal (ranked 19th overall) at the Italian Olympiad in Informatics (OII), a programming competition with high focus on algorithms where each year approximately 13,000 students compete against each other.

Member of the winning team of the Italian Olympiads in Informatics for teams

APRIL 2014

Captain of the 5 membered team which **ranked 1st** among all participating high schools in the country.