# Ignacio Navarro

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## Education

**Imperial College London**, 2014 - 2018
Joint Mathematics and Computer Science,
Master of Engineering, **First Class Honours**

**American School of Valencia**, 2010 - 2014
Valencia, Spain.

**Spanish Selectividad Entrance Exams:** Spanish History (10/10), Mathematics (10/10), Biology (7/10), Physics (10/10), Spanish Literature (10/10), English (10/10)

**American College Testing:** (ACT 35/36)

**SAT Subject Tests:** Math II (800/800), Molecular Biology (800/800), Physics (800/800)

## Employment

**J.P. Morgan**, Jun 2017 - Sep 2017
Data Scientist working on anomaly detection on market data.

**IMSK**, Summer 2017
Sole application and web developer for the European Musculoeskeletical Institute.
`www.imsk.es`

**Undergraduate Teaching Assistant (TA)**, Sep 2016 - Apr 2017
TA for first year students. Met weekly for a one-hour session, and marked lab exercises.

**Eduvapp**, Dec 2016 - Jun 2017
Sole developer for an application that connects students to private tutors. Written in Django with a PostgreSQL database. Later extended this project to support an iOS app.

**Sea Saffron**, Aug 2016 - Sep 2016
Web developer for a startup that offers tours of cities through gastronomy.

## Accomplishments

Computing Entrance Scholarship, Imperial College London

Stand-out third year group project, Imperial College London

Engineering Dean's List, 2nd Year, Imperial College London

Mathematics and Science Award, American School of Valencia

Top 1% ACT

# Skills

*Programming*

**Java (Excellent):** Strong general knowledge of the language.

**Python (Excellent):** Used for small projects and web development (Django)

**C++/C (Strong):** Experience in object problem modeling in C++ such as programming the Enigma machine, or building an emulator and assembler with ARM architecture in C.

**Haskell (Strong):** First programming language I learned. Built a compiler in as a group project second year. Being a functional programming language, I believe it gave me a strong mindset for the following programming languages.

*Research and Projects*

Computing Research Project: **Multipaxos** (Reaching consensus in a distributed network).

Computing Research Project: **Seasonal ESD** (Anomaly detection).

Math Research Project: **Mandelbrot set and logistic maps**.

Master's Thesis: **On Homomorphic Encryption**.

*Interests*

Coding theory and in cryptography. Some topics that interest me include homomorphic encryption and the importance of pseudorandomness on cryptography. However, in general I'm just interested in fields of computer science where math plays an important role.

Data science (in particular anomaly detection), time series analysis, and Big Data.

Github: `github.com/nachonavarro`

Last updated: October 12, 2017