

# Abraão Pacheco Dos Santos Peres Mota

Imperial College London Computing Undergraduate

Tel: +4479 444 65132

E-mail: [abraaomot@outlook.com](mailto:abraaomot@outlook.com)

LinkedIn: [linkedin.com/in/abraaomota](https://www.linkedin.com/in/abraaomota)

Github: [github.com/AbraaoMota](https://github.com/AbraaoMota)

## Education

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2014-2018 **Imperial College London**, London, United Kingdom  
Computing MEng

**Year 1** - 67 %

**Year 2** - 67 %

### Highlights:

Thus far, I have developed my programming skills and become very confident with **Java** as a result, and familiar with **Haskell**, **C** and **Python**. Some of the modules I have covered so far include **Logic**, **Hardware**, **Databases**, **Networks** and **Software Engineering (Design & Algorithms)**.

I have also participated in many group projects; I helped to write a compiler in Java, parts of the *PintOS* operating system, and most recently, *Summit* (mentioned below).

2012-2014 **Chelsea Academy**, London, United Kingdom

### A Levels:

Mathematics - A\*, Further Mathematics - A, Physics - A, Economics (AS only) - B

2007-2012 **Battersea Park School**, London, United Kingdom

### AS:

Portuguese - A

### GCSEs:

11 A\*'s, Latin - A

## Work Experience

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July 2016 — September 2016	<b>Alliants</b>	<b>Software Developer Intern</b>
		I worked on the <i>Hub</i> , an internal tool designed to store organisational information for Alliants. It is built using Ruby on Rails, a framework I had no prior experience of. This really strengthened my Ruby and version control capabilities as part of a team, as well as teaching me about Test Driven Development.
October 2014 — June 2016	<b>Self Employed</b>	<b>Private Tutor</b>
		I have taught 2 pupils for a year each, between 10 and 16 years of age. I firstly taught GCSE Mathematics, followed by Mathematics, Verbal and Non-verbal reasoning with the second pupil. I faced a great challenge as I dedicated a minimum of 4 hours per week to teaching whilst studying at university. It also taught me to communicate more efficiently by breaking down concepts into bite-size ideas for younger pupils.

## Skills

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Computing	<b>Programming</b> - Java, Ruby, C, Haskell, Python <b>Web Development</b> - Ruby on Rails, Bootstrap, HTML & CSS Data structures, Test Driven Development
Languages	Portuguese - Native proficiency English - Bilingual proficiency Spanish - Professional working proficiency Russian - Level 1, Elementary proficiency

## Projects

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Summit	Summit is a web application platform designed using Agile methods to help anyone learn how to trade using real time data from live stocks, without placing real capital at risk. This was a 4 person project, developed in partnership with Flextrade. I largely worked on the frontend which employed an extensive use of Javascript, React.js and Bootstrap.
Ruby Web Scraping	A personal ongoing project where I scan and download pictures from the popular website Reddit using a Ruby script. This project is available on my Github account.
Peas in a Pod	I designed and built a website for a small business. I made use of Bootstrap, as well as HTML and CSS. This project is live at <i>peasinapodcare.com</i>
WACC Compiler	As part of a group of 4, I have designed and implemented a compiler that supported multiple-inheritance from a simple-while language (WACC) to ARM11 instructions.

## Extracurricular & other Activities

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January 2016	<b>MyoGaming at ICHACK 2016 Hackathon</b> In a group of 4, we modified a top-down Unity tutorial game into an FPS that made use of the Myo gesture control armband and its API to move around and shoot in-game, with VR support. This 24-hour hackathon culminated in an android app where the user could wear a VR headset and shoot at enemies using the Myo armband connected via bluetooth to the user's phone.
2013 — 2014	<b>Angry Gecko Project Manager</b> I managed the building an electric car to race at a national level. I was heavily involved in the marketing of the project and raised £700 worth of sponsorships. We finished 32nd out of 40 without a breakdown which was an achievement for a first year project of the type.
Ongoing	<b>Sports:</b> Weekly Tennis, Football, Table Tennis <b>Photography:</b> As part of a university project in a group of 10, I co-directed and filmed a video that won the award for 'Best Team Skills video'.