

Muhamad Gafar

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EDUCATION

- **Imperial College London** London, UK
Master of Science in Computing Science (Merit) *Oct. 2017 – Sept. 2018*
 - **Relevant Modules:** Machine Learning, Computer Systems, Databases, and Software Engineering
- **University of York** York, UK
Bachelor of Engineering in Electronic Engineering (First Class) *Sept. 2014 – July 2017*
 - **Awards:** Examiners Prize for Sustained Academic Excellence Throughout the Degree Programme
 - **Relevant Modules:** Digital Engineering, Design and Construction, and Project Management
- **Repton School Dubai** Dubai, UAE
IB Diploma: Including HL Physics (6), HL Mathematics (5), HL Chemistry (5) *Sept. 2012 – July 2014*
OCR FSMQ: Advanced Mathematics Grade A *Sept. 2011 – July 2012*
IGCSEs: 7A, 3A, 1C - Including A* in Mathematics and English Literature* *Sept. 2010 – July 2012*

SKILLS

- **Programming Languages:** C++, Java (including Xtend), Node.js, Prolog, VHDL, HTML, and CSS
- **Development Practices:** Familiar with Agile techniques such as test driven development, continuous integration (Jenkins), and user-centric design. Basic understanding of version control systems (Git).
- **Spoken Languages:** Fluent English and Portuguese, beginner French

NOTABLE PROJECTS

- **Master's Thesis** London, UK
xDrone: Object Recognition and Domain Specific Language (DSL) Development *June 2018 – Sept. 2018*
 - **About:** Developed a DSL with support for autonomous flights, face detection, and feature matching on a *Parrot AR Drone*. A web application was also developed with an embedded IDE so users can utilise the DSL. Set-up a networking and processing hub on a Raspberry Pi for hosting a web application and interfacing with the drone.
 - **Key Learnings:** Learned about build automation systems (Gradle) and became familiar with user-centric development, when working to fulfil the requirements of 5 clients.
- **Software Engineering Group Project** York, UK
Media Player and Server *Mar. 2016 – May 2016*
 - **About:** Developed a streaming media player software, based on Java, using basic network communication for streaming using socket programming.
 - **Key Learnings:** Gained understanding of the Agile Manifesto proclamation. The work was split into sub-tasks which were divided between myself and a partner; at the end of each sprint the code was combined.

POSITIONS OF RESPONSIBILITY

- **Third Year BEng Course Representative** *Sept. 2011 – July 2012*
 - **About:** Engaged with the student body to raise any concerns or suggestions to the university. Attended SSL Committee and Board of Studies meetings and present reasoned arguments for desired changes in the department.

HOBBIES AND INTERESTS

- **Code Camp:** Recently joined a coding camp for interacting with more experienced programmers and learning about front-end web development using ReactJS.
- **Football:** Represented Vanbrugh College while studying at the University of York and stood as captain for some games. Took part in the annual inter college cup, twice.
- **Duke of Edinburgh Gold Award:** Navigated and trekked a mountain, in Nepal. Was part of a charity team that worked on renovating a school at a local village.