

Jaafar Rammal

jarammal@gmail.com | jaafarrammal.com | Lebanon | United Kingdom |   

Education:

Imperial College London (MEng Computer Engineering) – Graduated with a 1st	Sep 2018 – Jun 2022
<ul style="list-style-type: none">1st year + 2nd year Dean's List for Academic Excellence (class top 10%).Relevant Modules: Compilers, Comp Arch, Databases, Networks & Distributed Sys, OOP, HLP, Stats, Robotics, Signal Processing	
Grand Lycée Franco-Libanais:	Sep 2015 - Jun 2018
<ul style="list-style-type: none">French Baccalaureate (Scientific). Top 5% on school with 18.35/20. IB in History & Geography and Arabic.	

Relevant Work Experience | Projects:

Palantir Technologies, Forward Deployed Software Engineer	Jan 2023 – Present
Terra Enabling Developers (YC 21), Full Stack & Sales Engineer	Nov 2022 – Jan 2023
<ul style="list-style-type: none">One of the first engineers. Responsible for building and scaling applications on AWS, driving customer success and company growth, utilizing frontend and backend technologies (React, Python, Java) and contributing to key performance indicators.	
Palantir Technologies, Forward Deployed Software Engineer	May 2021 – Oct 2021
<ul style="list-style-type: none">Worked on Life Sciences R&D. Built a data integration pipeline to enable collaborative harmonization and end-usage. My work involved regular client meetings, user feedback, and was presented at an internal scientific conference	
ARM, Software / Hardware Engineer	Aug 2020 – Oct 2020
<ul style="list-style-type: none">I extended an existing UVM Verilog generator with hierarchical register blocks generator and wrote my own Python verification predictor generator. I also deployed an Angular UI generator to automate hardware configurations	
Schlumberger, Software Engineer:	Jun 2019 – Sep 2019
<ul style="list-style-type: none">Built a web app for organized, secured access to all reports inside DrillPlan to review desired petroleum activity reports, even offline. The product was pushed to production. Used PWA Features, Angular 7, Service Workers.	

Imperial Part-time experiences	Oct 2019 – Mar 2021
<ul style="list-style-type: none">Imperial College Robotics Society Committee (Events Coordinator)Undergraduate teaching assistant for "Algorithms and Data Structures", and "Compilers"	

Relevant Projects:

- Co-founder / CTO** of startup DeltaCrypt GmbH, building a digital payment solution in Africa (Oct 2022 – Present)
- Founder / CTO** of startup CloseRangeTechnologies.Ltd, building technologies to improve the post-pandemic world (1 year)
- Built a **MIPS CPU simulator (C)**, a **C to Assembly Compiler (C)**, and a **16-bit RISC CPU with custom ISA (Verilog)**
- Interactive Flappy Bird with users flapping to play. Built with a **Xilinx PYNQ-Z1 FPGA** using **Vivado** and **HLS**.
- Encryption Mobile App (Swift, Java)**: share and retrieve message hidden in images through steganography.

Competitions | Events | Awards (latest / relevant):

BGN UK Hackathon (Google): 2nd Place	5-8 Mar 2021
<ul style="list-style-type: none">Built an AR marketplace with React, Firebase, and Typescript, where shoppers can view any product in AR after sellers scan and upload their products. The platform is centered around promoting small businesses.	
ICHack Thought Machine runner-up	8-9 Feb 2020
<ul style="list-style-type: none">Built ShopWise, your iOS interactive personal shopping assistant that offers healthier, cheaper, and greener alternatives, with a supply chain history using a Kaleido distributed ledger for transparency of the supply chain	
Hack Cambridge: 1st Prize Reply Green IoT + MLH mongoDB	18 - 19 Jan 2020
<ul style="list-style-type: none">Built an IoT network with trash can sensors and street cameras to sense the vacuity of public bins and locate trash on the streets (computer vision). The data is displayed on a map for an iOS trash collection game, Pokémon-Go style.	
BGN UK Hackathon (Google): 1st Place	26 - 27 Oct 2019
<ul style="list-style-type: none">Built a mobile app encouraging users to scan, collect, and bin trash from the streets and win points. These points are swapped with vouchers promoted by rising businesses. A local leaderboard recognizes those who clean more.	
HackZurich19: Helsana Workshop Award (for Health Product)	27 - 29 Sep 2019
<ul style="list-style-type: none">Built with Swift & Python (team of four) iOS app connected to geolocation data, Google trends, fitness and health trackers, to predict potential disease risk, explain the factors, and offer prevention advice for a healthier lifestyle.	
BGN UK Hackathon (Google): 1st Place	26 Jan 2019
<ul style="list-style-type: none">Built a mobile app to learn African languages, using swift and firebase. It includes classic language games as well as an interactive chatbot to simulate realistic scenarios for language practice (restaurant command, ...)	
Robotics Team Member (FIRST¹ Competitions FIRST Tech Challenge):	2014 - 2018 (4 competition seasons)
<ul style="list-style-type: none">Team of four members, working at home and financing our seasons through assembling and selling 3D printers. Earned 7 national awards, national representatives in the international competition twice. Developed skills in critical thinking, project management, business plan, CAD modeling, mechanical assembling. Implemented a Java app for wireless joystick-control, hardware control, assisted driving (gyro + acc), image recognition for navigation	

Technical Skills and Personal Interests:

- Proficient in **C++, Java, Swift, React**. Comfortable with **Angular, Python, TS/JS, Verilog, Assembly**. Learning **AWS**
- Shinkyokushin Karate with **black belt, competed on international level**. Classical guitar player with five personal compositions.
- Proficient in **Arabic, French, and English**. Learning **Spanish**.

1- FIRST (For Inspiration and Recognition of Science and Technology): international youth organization operating robotics competitions. <https://www.firstinspires.org/robotics/ftc>