



# TIAGO FERREIRA

SOFTWARE ENGINEER (DEVOPS)

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## SUMMARY

I am a dedicated lifelong learner, amateur runner and meticulous when it comes to design and detail. My main skills are in cyber security and DevOps, I am passionate about development automation, using tools as Docker, Kubernetes, Helm, Jenkins, Terraform, GitLab CI Pipelines.

## WORK EXPERIENCE

WORLDWIDE CHAIN  
STORES  
2018 - PRESENT

### Software Engineer (DevOps)

Responsible for a company-wide transition to Cloud Native deployments and containers. Management of a Kubernetes cluster for deployment of both production-ready and test code. Automation of deployments and rollbacks with CI pipelines and Helm.

UNIVERSITY  
COLLEGE LONDON  
2018 - 2018

### Researcher (Associate Staff)

Worked on the research, development and coauthoring of a novel Automata model, **Symbolic Register Automata**.

UNIVERSITY  
COLLEGE LONDON  
2017 - 2017

### Intern Software Engineer

During the summer of 2017, I have aided in post-doctoral research in the Programming Principles and Logical Verification group at UCL. This involved mainly development of programs and frameworks in C++, heavily connected to Artificial Intelligence, Automata Learning, Abstract Algebra and Discrete Mathematics.

## EDUCATION

ST PETER'S SIXTH  
FORM  
2017 - 2019

### A-Level

- Computer Science – A\*
- Mathematics – A\*
- Further Mathematics – A

ST PETER'S  
CATHOLIC SCHOOL  
2015 - 2017

### GCSE

- Computer Science – A\*
- Mathematics – 8/9
- English Language – 9/9

## VOLUNTEER EXPERIENCE

PHILLIPS LIGHTING  
2017 - 2018

### Security Research

- Disclosure of security vulnerabilities like **CVE-2017-14797**.
- Worked with the Philips Product Security team to develop a patch and fix for the vulnerability.
- Vulnerability was released only once a patch was made available.

PEACE CORPS  
2017 - 2017

### iOS Developer

- Helping on the development of the Systers' FirstAide app.
- Peace Corps is committed to providing a compassionate and supportive response to all Volunteers who have been sexually assaulted. To that end, the Peace Corps makes the following commitment to our Volunteers who are victims of sexual assault.
- This project is to support the initiative by creating a mobile app that PCVs can readily have accessible to report or gain information on Peace Corps Safety and Security procedures.

APPLE

2014 - PRESENT

#### Software Beta Tester

- The Apple Beta Software Program lets users try out pre-release software. The feedback provided on quality and usability helps Apple identify issues, fix them, and make Apple software even better.
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## AWARDS AND CERTIFICATIONS

STANFORD ONLINE

2018 - 2018

#### Computer Science 101

- CS101 teaches the essential ideas of Computer Science for a zero-prior-experience audience. Computers can appear very complicated, but in reality, computers work within just a few, simple patterns. CS101 demystifies and brings those patterns to life, which is useful for anyone using computers today.

GOOGLE

2016 - 2017

#### Google Code-In 2016

Google Code-in is a contest to introduce pre-university students (ages 13-17) to open source software development. Since 2010, over 8100 students from 107 countries have completed work in the contest.

Because Google Code-in is often the first experience many students have with open source, the contest is designed to make it easy for students to jump right in. Open source organisations chosen by Google provide a list of tasks for students to work on during the seven week contest period. A unique part of the contest is that each task has mentors from the organisation assigned should students have questions or need help along the way.

UNITED KINGDOM

MATHEMATICS

TRUST

2017 - 2017

#### UK Intermediate Mathematical Challenge

Awarded Silver Certificate (Top 13% of the population)

The Intermediate Challenge is aimed at pupils in Year 11 or below in England and Wales, Year 12 or below in Northern Ireland and S4 or below in Scotland. The challenge involves answering 25 multiple choice questions in one hour and is sat in school under normal exam conditions. Pupils fill in the answer sheet in B or HB pencil and the Challenge is marked by UKMT using an optical mark reader.

ROBOCUP

INTERNATIONAL

FEDERATION

2014 - 2014

#### Junior Robotics World Champion

- Project-oriented educational robotics for students up through age 19, with a focus on providing a hands-on, scaffolded environment where learners can grow by expanding their knowledge of, sparking their curiosity about and increasing their comfort with technology. Three challenges: soccer, rescue, onstage (former dance) each emphasising cooperative problem-solving; each designed to reach creative young minds with a range of interests, and skills.