

Giovanni Charles

WORK EXPERIENCE

JUL 2014 - OCT 2014

Mozilla - San Francisco

FirefoxOS Developer intern

I reinvented the "First Time Experience" for FirefoxOS. I also made several bug fixes for localisation with contributions spanning the "Gaia" project, <https://github.com/mozilla-b2g/gaia>.

APR 2013 - SEPT 2013

ARM - Cambridge

Software engineer intern

I implemented uCLinux awareness for the ARM debugger. To do this, I became familiar with Linux internals and used the debugger's API to inspect interesting parts of the operating system.

I then extended the OS awareness API to allow for shared library support. This involved making important design decisions for refactoring large parts of the codebase.

JUN 2012 - SEPT 2012

Infosys - Bangalore

Researcher intern

I developed an analyser to calculate metrics for a Python projects modularity. To do this I had to learn Python and identify characteristics of the language that could hinder modularisation. I then wrote a parser in Python to identify and measure the severity of these characteristics.

JUN 2011 - SEPT 2011

Orbis Mutual Funds - Wimbledon

Developer and tester

I worked on the company's intranet and reporting using a variety of technologies including C#, SQL, SSRS, JavaScript and XAML.

OCT 2010 - JANUARY 2014

Self employed

Events manager

I organised venue hire, sound and lighting hire, ticket sales, promotion, security and local council £1230 in profit. This experience was valuable when I later assumed the role of events manager and radio presenter for my university radio station.

DEGREE COURSES

Compilers, Computer Architecture, Machine Learning, Performance Analysis, Advanced Databases, Network Security, Distributed Systems...

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QUALIFICATIONS

2010 - 2014 **Computing**
MENG - FIRST CLASS HONOURS
Imperial College London
2008 - 2010 **A-levels**
MATHS - A*, PHYSICS - A*,
COMPUTING - A
Wilsons School

PROJECTS

2014 **Ferret - Winning project**
BUILD THE NEWS (HACKATHON)
A webapp to help journalists filter out the noise on Twitter - ferretapp.co.uk
2014 **CINE**
FINAL YEAR PROJECT
A Virtual-time profiler for P-Thread systems
2013 **Travel map - Winning project**
IC HACK - ichack.org/
An aggregation of holiday options with social data displayed on google maps
2013 **CrowdTrust**
A crowdsourcing framework that models the accuracy of a crowd to improve results
2012 **PintOS**
A thread scheduler, virtual memory system and system calls for a small OS
2012 **J.P. Morgan, Spring week**
Estimation of market prices using the Black Scholes model

SOFTWARE SKILLS

GOOD LEVEL Javascript (Node.js/browser), git, HTML, CSS, Python, Java
INTERMEDIATE Matlab, C/C++
BASIC LEVEL Bash, Prolog, Haskell