MAYEUL FOURNIAL

Imperial College Penultimate Year Student - MEng Mathematics and Computer Science

@ mfournial@outlook.com   in linkedin.com/in/mfournial   github.com/mfournial

EXPERIENCE

Internet Services Developer
at Netcraft   📅 July - September 2018

- Automated the creation of sandboxes to analyze malware
- Worked extensively with `python`, SQL Alchemy, `vboxmanage`, `puppet`, GitLab CI and `docker`

Spring Week Intern
at JP Morgan   📅 April 2018

Achieved top scores in group programming challenges

Freelance Web Developer
📅 January - May 2017

- Designed, developed and deployed websites and IT solutions for associations and small businesses
- Developed skills in collaborating effectively with customers

Private Maths Tutor
📅 2013-2016

PROJECTS

Cost of the Diet Survey: Web and Mobile Application
📅 May-June 2018

Developed iteratively, through collaboration with Save the Children, an Android app to be used for the Cost of the Diet process

Waskell
📅 October - December 2017

- Built, in Haskell, a correct and efficient compiler for the WACC language
- Achieved a grade of 99% for code quality

Boombox
📅 October 2017

Full-stack development for a prize-winning distributed speaker web-app, built with `nodejs`, which queries a MongoDB database and communicates across devices using sockets

ARM Project
📅 May - June 2017

- Developed a Rubiks cube solver in C using a Raspberry Pi and LEDs
- Implemented an assembler and emulator for the ARM11 architecture

Quantum Computing
📅 Jan - Mar 2017

Researched and documented the implementation of quantum computers, quantum algorithms and their potential impact

wEther
📅 Feb 2017

- Developed, using `meteor`, an Ethereum-based weather insurance application, which uses the Google Maps and Yahoo Weather APIs
- Winner of most disruptive hack at WarwickHack 17

Emojifier
📅 Jan 2017

- Developed a web app that uses word embeddings and neural networks to predict relevant emojis for blocks of text
- Built in a group of 5 people in under 24 hours for ICHack17

See some of my projects at https://devpost.com/mfournial

EDUCATION

MEng Mathematics and Computer Science - *Imperial College London*
📅 Oct 2016 – June 2020

On track to achieve a first class degree with 98% in software engineering design
Extracurricular module: Entrepreneurship

CS50 Introduction to CS - *HarvardX*
📅 Oct 2015 – Dec 2015

Developed programming skills through writing C programs and web applications

French Bac option IB - *EJM*
📅 Sept 2012 – July 2015

Mention (distinction) très bien

ACHIEVEMENTS

🏆 **Olav Beckmann project prize**
Awarded for outstanding second year project work at Imperial College London, achieving a 95% average

🏆 **Academic representative**
Elected for 2017-18

🏆 **Concours général**
Qualified for the most prestigious academic competition in sixth form

💗 **First aid qualification**
Received the PSC1 diploma

STRENGTHS

Communication and teamwork skills

Highly motivated self-improver

OOP   Functional Programming

Design Patterns   TDD   Web Dev

Web Security   UNIX   Git   Java

Haskell   Python   JS   C   PHP

Perl   Rust   SQL   NoSQL   ORMs

LANGUAGES

English (fluent)   French (native)