

## Murray Robert Wynnes

Phone: +447894916946

Email: mrwynnes@gmail.com



Driven software engineer with over two years experience as a web developer. Has a wide knowledge of current software development practices and emerging technologies. Efficient at learning new programming languages and capable adapting to unfamiliar environments. An independent learner, team player and highly motivated to seek new challenges. Enthusiastic about all manners of opportunity and enjoys being active.

### Work Experience

#### 2013-2016 – Web Developer, Captive Minds

- Captive Minds Communication Group
  - Developed a city wide mobile platform *Loqiva* for citizens to receive targeted events, redeem benefits and read news feeds. Developed in PHP, MYSQL, CSS, HTML, JavaScript
  - Worked closely with local councils in the borough of Tower Hamlets, developed web applications for citizens to complete payments, report incidents and mature communication channels.
- Captive Health
  - Worked on high throughput NHS patient and staff feedback solutions, 100k + survey responses per hospital.
  - Deployed Restful APIs using Zend Framework for iOS and Android mobile platforms.
  - Extensive frontend development on client side dynamic and responsive surveys, focusing on progressive enhancement and accessibility.

#### 2013 – General assistant, European Waterways

- IT admin roles, assisted upgrading booking management software

### **2007 - Sales Assistant, GAP Clothing Retailer**

- Worked closely with the general public providing customer service.
- Responsible to aid security of over 20 stores using radios.

### **2006 - Warehouse Coordinator, Nauticalia**

- Required good time management and organisation skills, team work required to ensure high quality control of the stock.

### **2005 - Receptionist/ Managers PA, APCOA**

- Developed social skills from communication with many corporations.
- Processes Invoices and checked Databases for accuracy.

### **2005 - Sales Assistant, Regents Estate Agents**

- Negotiate with customers and document handling.

## **Education**

### **2011-2012 - University of Bristol**

- MSc in Advanced Computing (Internet Technologies with Security) with Merit
  - Thesis – Academic social networking security, privacy and scalability issues

### **2008-2011 - University of Bristol**

- BSc in Mathematics and Computer Science II(ii) Hons
  - Options Included Artificial Intelligence, Cryptography and Neuroscience

### **2006-2008 - Strodes College, Egham Surrey**

A-Levels: Pure Maths (A), Computer Science (A), Physics (B). AS Level Economics

## **Technical Skills**

- Programming: C++, C, Java, Prolog, Haskell
- Web Development: PHP (Zend / CodeIgniter), AWS, MySQL, JavaScript (Angular, Node)
- Mobile Development: Android (Novice), Cordova, Ionic
- Tools: Numerous IDE's, Git, SVN use of testing practices (TDD, BDD)
- Experience of Scrum and Agile, with good code review practises
- Operating Systems: Linux, Windows, OSX
- Proficient in MSOffice, LaTeX and MATLAB

## **Projects**

- Executed various attacks against real cryptosystems. Mounted attacks include those on an RSA decryption oracle (PKCS v2.1 RSAES-OAEP) via analysis of execution time and result code; along with attacks on AES encryption to recover the key using statistical methods on data acquisition of power consumption leakage.
- Comparison of 2D Lattice-Boltzman fluid simulation performance on UoB's super computer: 'Blue Crystal'. Analysis using parallel technologies OpenMP, MPI and OpenCL (CUDA on NVIDIA Tesla M2050).
- Co-authored a distributed knowledge engine for sharing and storing papers using PHP, CodeIgniter, JavaScript, LESS on a LAMP stack with AWS
- Researching into how to secure WLAN networks. As part of a group project produced a written report detailing scientific and practical issues of WEP, WPA/2 and wireless intrusion detection systems.
- Independent Final Math project on Chaotic Dynamical Systems.

## **Additional Information**

- Languages: English (native), French (beginner)
- Driving: Full clean UK driving licence

## **Interests**

- Active Lifestyle playing Football, Climbing, Cycling, Running, Juggling, Tennis and Golf
- Enjoy Skiing and Mountain walking, Member of Bristol Ski Society with trips to Austrian Mountains.
- Love Travelling: Broad travel across Europe with friends. Learnt to adapt to new cultures. Travelled up the North East coast of Australia.

**Referees available on request**