Murray Robert Wynnes

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Driven software engineer with over two years experience as a web developer. Has a wide knowledge of current software development practices and emerging technologies. Ability to learn new languages and techniques with ease. 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
  - Understanding of numerous agency workflows: experience working closely with designers, social media teams and clients throughout expeditions.
  - 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 – Software assistant, European Waterways

- IT admin roles, assisted upgrading booking management software

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

Technical Skills

- Programming: C++, C, Java, Prolog, Haskell, Verilog
- Web Development: PHP (Zend / CodeIgniter), AWS, MySQL, JavaScript (Angular, Node)
- Mobile Development: Android, 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

- 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.
- 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).
- 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.
- 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