David Simkin

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Technical Skills

Languages: Java, PHP, C++, C#, Python, Ruby
Applications: Eclipse, Apache, MySQL
Frameworks/SDKs: Symfony, Android SDK, Qualcomm Augmented Reality SDK
Web: HTML5, CSS, Javascript, jQuery, Twig
Other: OpenGL, OpenCV, Subversion, Mercurial, Doctrine

Education

Newcastle University, Newcastle upon Tyne, UK   **2009–2012**
Bachelor of Science in Computing Science
- Coursework and research in computing science including programming, distributed systems, internet technology, graphics, and artificial intelligence.
- First year average: 83%, Second year average: 81%

The Henley College, Henley upon Thames, UK   **2007–2009**
- International Baccalaureate: 33 points (equivalent to 457 UCAS points)

Work Experience

Newcastle University, Newcastle upon Tyne, UK   **Summer 2011**
Research Assistant
- Team leader and developer on joint NHS/Games lab project developing augmented reality based application for Android tablets for use in the rehabilitation of children with neurological disorders.
- Overcame hardware limitations in the processing of real-time video and gestures imposed by the desktop-based origins of the OpenCV image processing library by rewriting library code to work within Android tablet hardware specifications and Dalvik VM memory constraints.

John Lewis, Reading, UK   **2007-2008**
Team member – Sales
- Maintained database and ordering system while providing high-level of customer care.

Personal Projects

- Sole developer of the Android application Reddita, a Reddit client for Android Tablets. Developed knowledge of Reddit API despite lack of documentation, through analysis of Reddit's RESTful interface. Quickly responded to unadvertised API changes, while maintaining customer satisfaction through timely response to bug reports.
    - Over 1000 paid versions sold and over 6000 free users.
    - Top 15 selling application in "News and Magazines" section of Android Market.
    - Serves over 3 million advertisement impressions per month.
- Developed a Symfony framework based web application for the public submission of academic papers, including a crowd-sourced voting and weighting system with the goal of increasing the availability and visibility of academic works while facilitating discussion and soliciting viewpoints from the wider public.
- Created data visualization component for Twitter metrics analysis project using JQuery to graph metrics pulled from MySQL database.