

Isaac Lewis

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Education

University of Warwick

Computer Science MEng, First Class Honours (predicted)

Oct 2008 - June 2012

- Was named the top student in the department for IBM's "EMEA Student of the Year" award.
- Achieved first class honours in over 80% of modules to date.

Hong Kong University of Science and Technology

Exchange Student

Sept 2010 - May 2011

- Achieved overall GPA of 3.6 (out of 4.0).
- Achieved an A grade for my third year project, "Texas Holdem Poker AI utilizing Machine Learning techniques". I created a pokerbot that used neural networks to exploit weaknesses in its opponent's strategy.

Work

TribePlay

Backend Developer (Intern), Social Gaming Industry

June 2011 - August 2011

- Interned with a social gaming startup based in Chengdu, China. Chiefly worked as a Java web developer, but also worked on game design, market research and writing for the company's blog. Worked in an international environment with American, European and Chinese colleagues.
- Backend developer for a new Facebook game; the backend utilised Java, Tomcat, MySQL, Memcached, AMF and integration with the Facebook API. As sole backend developer for this project, my work was critical to its success, and I had to ensure the game was secure and could scale to thousands of users.
- Researched HTML5/Javascript applications and gave recommendations to management on the business case for HTML5 games, regarding issues such as performance, platform strategy and source code protection. My research helped the company decide how to exploit the emerging HTML5 platform.
- Created a new game concept and negotiated a deal with the CEO whereby I would continue working on the game after leaving the company, in exchange for a share of the profits. As the game is written in HTML5, I suggested that TribePlay use it to explore the capabilities of HTML5 games, especially their ability to capture the mobile and tablet markets.

Skills

Web Development

- Extensive knowledge of frontend and backend web development from working on numerous web projects, including:
 - A browser-based multiplayer game written in PHP and MySQL.
 - A Facebook app for learning Mandarin, written in Ruby on Rails.
 - A Twitter app for creating polls, written in Ruby and MySQL.
- Strong knowledge of HTML and CSS, and the principles of good web design.
- Experienced with Javascript and AJAX; written projects using the jQuery library; wrote a game using Javascript and Canvas (see above).
- Experience with architecting web applications for performance and scalability; knowledge of how to design a system using multiple technologies to achieve these goals; knowledge of securing websites from common attack vectors.

Mobile Development

- Experienced with Android; wrote an Android route finder app for a university project; participated in the SVC2UK Appathon contest where I led a team building a first aid app (I was the only team member with previous Android experience).
- Strong experience with HTML5 mobile applications; as related above, I'm currently writing a HTML5 game to research the capabilities of HTML5 apps on various mobile and tablet platforms.

Programming Languages & Technologies

- Very strong experience with Ruby and Java, having used both extensively for numerous projects.
- Also written projects in Javascript, PHP, Clojure, Python, Haskell, C and Scheme.
- Experienced with SQL databases including MySQL, SQLite, and PostgreSQL; also worked with "NoSQL" databases such as MongoDB and Redis.
- Experienced with Linux, and configuring the web servers Apache, nginx and Tomcat.
- Experienced with the version control systems svn and git.

Human Languages

- English – native speaker.
- Mandarin Chinese (written and spoken) – intermediate level.

Miscellaneous

- Currently a member of the executive committee of Warwick University's Entrepreneur Society; I function as IT Officer and helped spearhead the society's new Incubator programme.
- Won the "Stephanie Lee Young Volunteer of the Year Award" for completing a 250-mile charity walk, raising almost £3000 for the 2008 Chinese earthquake appeal.
- My personal interests include foreign travel, Texas hold'em poker and reading inspirational autobiographies.