

# Ryan Watkins

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CONTACT INFORMATION	Pilgerhausstrasse 31. 86152, Augsburg Deutschland	r.watkins@student.reading.ac.uk (+44) 7903 029 399
EXPERIENCE	<p><b>Feistybird</b>, London, United Kingdom <i>Founding Engineer and CTO</i> Founded and developed 'Feistybird', a service that moderates and displays social feeds from hashtags, adds event agendas and customizes the final display layout. The service is used by multiple global companies. Technologies used include SQL, JS, PHP, React, AWS, Unix, Node.js, CSS and HTML</p> <p><b>Allianz Global Investors GmbH</b>, Munich, Germany <i>Frontend Developer (Internship)</i> Improved UX/UI for 'TimeScape Explorer' (Investing UI). Integrated various open source libraries into the existing ASP.NET framework such as 'Handsontable' and 'MetricGraphics'. Coordination with project integrating new database schema. Performance optimization on large datasets from SQL database. Technologies used were Git, jQuery, ASP.NET and native JS</p> <p><b>Oxford City Council</b>, Oxford, United Kingdom <i>Business Improvement</i> Created a full independent system to protect important documents for entire company. Trained new IT Support Analysts. Produced reports from MySQL queries. Management of employee phones database. Technologies used were C#, Visual Basic and XML.</p>	<p><a href="http://www.feistybird.com/">http://www.feistybird.com/</a> <b>September 2014 - Now</b></p> <p><b>July 2015 - September 2015</b></p> <p><b>June 2014 - October 2014</b></p>
EDUCATION	<p><b>Bachelor of Computer Science</b>, University of Reading GPA: 3.5</p> <p><b>Modules(Y1):</b> Computer Architecture, Programming, Software Engineering, Maths for Computer Science, Fundamentals of Computing, Computer Applications,</p> <p><b>Modules(Y2):</b> Compilers, Operating Systems, Neural Networks, Machine Intelligence, Java, Computer Architecture, Advanced Databases, Databases, Essential Algorithms, Systems Design and Project Management</p> <p><b>Modules(Y3):</b> Social, Legal and Ethical Aspects of Science and Engineering, Individual Project, Data Mining, Concurrent Systems, Evolutionary Computation, Virtual Reality, Computer Networking</p>	<p><b>September 2013 - July 2016</b></p>
SKILLS	<p><b>In Production:</b> JS, React, PHP, Python, Node.js, MySQL, PostgreSQL, Bash Shell Scripting, Linux, AWS, ASP.NET</p> <p><b>In General:</b> C#, C++, Java, C</p> <p><b>Preferred Stack:</b> JS, Node.js, React, Sass, Git, PHP</p>	
PROJECTS	<p><b>2D SDL RPG Engine</b> Framework to allow developers to make their own 2D RPG's in C++. <i>100% grade awarded</i> in first semester. Over 3000 lines of code. Technologies used were SDL and C++. GitHub Repository: <a href="http://github.com/watkinsr/SDL-RPG">http://github.com/watkinsr/SDL-RPG</a></p> <p><b>Quantum Programming Language</b> Third semester project, full simulator and language that runs Deutsch's algorithm and C-like code. Research paper to come soon (April 2016). Technologies used: Python, C, YACC and LEX. GitHub Repository: <a href="http://github.com/watkinsr/QuantumPLToy">http://github.com/watkinsr/QuantumPLToy</a></p> <p><b>Easyquantum - Quantum Computing Lessons</b> Project to teach computer scientists about quantum computing. Website: <a href="http://watkinsr.github.io/easyquantum/">http://watkinsr.github.io/easyquantum/</a></p>	<p><b>2013</b></p> <p><b>2016</b></p> <p><b>2015</b></p>

**Quantum Computing for Computer Scientists Drills** **2015**

Exercises completed from the book: Quantum Computing for Computer Scientists. Programmed in Python to illustrate quantum computing concepts.

GitHub Repository: <https://github.com/watkinsr/QuantumComputingDrills>

**Breakout - Android Game** **2015**

Android breakout game done in second year at University of Reading. Contains a few advanced features (you can control two paddles and there are multiple balls)

GitHub Repository: <https://github.com/watkinsr/breakout>

COMMUNITY INVOLVEMENT **Mentor for Android Game Development MOOC**, FutureLearn Ltd **2014-2016**  
Answering various Java and Android related questions from participants

HONORS **Software Engineering Winner**, University of Reading **2014**  
**Best Team Participation (The EDGE Project)**, Carshalton College **2013**

LANGUAGES **English** Native  
**German** Professional  
**Chinese** Basic