

# JAMES BURKE

Full stack developer with Ph.D. and B.Sc. (Hons) in Computing

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## SKILLS & INTERESTS

### Technical Skills

- Ruby on Rails (5+ years commercial experience)
- Javascript: JQuery, JSON, Raphael (SVG), Backbone
- CSS / SASS / SCSS
- HAML / HTML
- Git / GitHub source control
- Twitter Bootstrap
- MySQL
- EngineYard deployment and server configuration
- Linux (Ubuntu) and Windows OS

### Past Technical Skills (Not practised actively)

- PHP
- Wordpress
- C# (4 years academic experience) - Microsoft XNA Framework (.NET)
- 2D/3D game design and development
- Brief academic experience with C++ and Java

### Personal Skills

- Dedicated, enthusiastic worker.
- Mentoring and team leadership skills.
- Clear and friendly communicator in speech and writing.
- Work well in both team and solo work environment.
- Keen to share knowledge and provide assistance to fellow team members.
- Open to learning new technologies, techniques and skills.
- Strive for quality in all tasks.

## WORK EXPERIENCE

### ExamTime / GoConqr (Belfast) – [www.goconqr.com](http://www.goconqr.com)

Senior Software Developer

09/2011 – Present

- Development of dynamic web applications in a small team.
- Application built predominately on Ruby on Rails and Javascript (including JQuery).
- Applications include mind mapping, flowcharts, flash cards, quizzes, slides, and an online software store (*Software4Students*) built on Spree Commerce.
- Senior team member with strong contribution to product and services.
- Mentoring of junior team members.
- Social features such as private messaging, group discussions and sharing resources.
- Integration with Facebook and Google social platforms for login and sharing.
- Worked closely with development team members, sales and management.
- Agile development with daily SCRUM meetings.

### University of Ulster (Coleraine)

Research Assistant

05/2011 – 09/2011

- Developed secure web-based image repository with PHP, MySQL, AJAX, JQuery.

## University of Ulster Science Research Park (Coleraine)

DiS placement: Technical administrator

06/2005 – 06/2006

- Worked unsupervised providing technical / administrative support to incubation clients.
- Included PHP/MySQL development of intranet and website, both individually and in team.
- Cisco network and firewall maintenance.
- Microsoft Exchange server administration.

## EDUCATION

### University of Ulster (2007 – 2011)

- **Ph.D.** in Computing Science: “Games for Stroke Rehabilitation”, School of Computing & Information Engineering.
- Development & evaluation of 2D & 3D computer games which elicit arm movement for stroke rehabilitation.
- Multiple publications in journals and conference proceedings.
- Presented work at International conferences.
- Graduated with Ph.D. in June 2011.

### University of Ulster (2003 – 2007)

- **BSc Computing degree with first class honours**, including diploma in industrial studies (DIS) with distinction.

### Foyle & Londonderry College (1996 – 2003)

- A/AS Level - Mathematics (B), Business Studies (B), Information & Communication Technology (B).
- GCSE – 9 GCSEs, including mathematics (A\*), additional mathematics (A), and English (A).

## ACADEMIC AWARDS & ACHIEVEMENTS

**Best paper award** at IEEE International Conference in Games and Virtual Worlds, Coventry, March 2009.

**Best short paper award** at 2<sup>nd</sup> International Conference in Games and Virtual Worlds, Braga, Portugal, March 2010.

## PERSONAL INTERESTS

I have a love for the world of technology, from small gadgets to high-tech equipment to web development. I also have a keen interest in video and computer games, be it designing, creating, playing or researching them. I am passionate about music and attend gigs regularly.

## PERSONAL ACHIEVEMENTS

- **2008** – Appointed student representative for PhD students in the School of Computing and Information Engineering at University of Ulster, Coleraine.
- **2007** – Mentored student team for Microsoft’s “Imagine Cup” game development competition and finished in top 20 worldwide (out of a total 120+ submissions).
- **2002** – Obtained Boys’ Brigade Queen’s Badge award.

## REFERENCES

Available on request.