

from the desk of

# EOIN BAILEY

B.A. B.A.I. M.Sc. M.I.E.I.

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A more detailed version of my cv is available online: <http://cv.eoinbailey.com>

## Profile

An M.Sc. graduate from Trinity College Dublin and a Ph.D. student at University College Dublin, I have degrees in Electronic and Computer Engineering with specialist experience in mathematical analysis of autonomic computing. I am actively working with Java and AnT, a mathematical analysis and plotting tool. I have hands-on experience with PHP, HTML, CSS, jQuery, and Javascript and in the past I have used Erlang, TCL, C++, BASIC, and several other languages. Outside of my research career I have a keen interest in web development, and recently released my first project, a Drupal module allowing users to play chess online, into the open-source community. I am a member of Engineers Ireland and Mensa.

## Education

**2006-to date: University College Dublin**, studying for my Ph.D. in computer science. As a member of the Systems Research Group and the LERO CSET I have the opportunity to work with researchers from the University of Limerick, DCU, and TCD. Central to my research is preventing complex systems from entering unwanted states. This work makes extensive use of mathematical analysis. I have several publications (which can be seen in the accompanying document), and my scientific skills and expertise have been honed over the years of research.

As part of my Ph.D. research, I have presented my work at international conferences and other research dissemination events such as the bi-annual LERO project meetings. I also assisted, as a student volunteer, at the ACM/IEEE ICAC 2006 conference and the Pervasive 2006, both hosted by UCD. I am the co-ordinator for the UCD internal LERO mailing lists and in the past have taken responsibility for organising LERO meetings hosted in UCD.

**2003-2004: Trinity College Dublin**, M.Sc. in Networks and Distributed Systems (NDS). NDS focused on technical skills aimed at developing distributed computer systems, however a strong business and inter-personal communication element was also present. This was achieved with the aid of outside venture capitalist input and multiple presentations to external visitors. The accompanying thesis I completed in 2004 is available online.

**1999-2003: Trinity College Dublin**, received a first class honours in Electronic and Computer Engineering.

Over the course of my academic career, starting from primary school, I have received numerous awards, as well as many achievements in extra-curricular activities, such as a level 6 public speaking certificate, and an entrance exhibition and book prizes at Trinity College Dublin.

## Experience

**Freelance IT Consultant** Dublin, Ireland 2008-to-date

While studying for my Ph.D. at University College Dublin, I simultaneously worked as a freelance IT consultant. The majority of projects I have worked on involve website development. I have worked both as the sole developer and as part of a larger team. Almost all my clients are referrals based on the success of previous contracts. I specialise in content management systems, customised to each clients needs.

**Self-employed IT Consultant** Dublin, Ireland 2004-2006

Upon completing my M.Sc., I started work as an independent computer consultant. I worked on web development, custom coding projects, and general IT issues.

**Legal Secretary, McGrath McGrane Solicitors** Dublin, Ireland, Summer 2003

Upon completing my Engineering degree, I considered returning to study in King's Inn's to become a barrister. Furthering this goal, I worked in a solicitors office to gain experience and insight into the profession. Upon reflection, I chose not to pursue this career path.

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## Salesperson, Bailey Medical Ltd. Ireland, Summer 2002

Working in my family company, I made sales to medical doctors in various hospitals around the country. I met with the consultants, discussed any issues they had regarding products and whether they required products from a different product range.

## IT Consultant, Bailey Medical Ltd. Dublin, Ireland, Summer 2001

In the role of IT Consultant for Bailey Medical, I implemented a new stock control system for medical equipment. This system lessened the amount of stock that needed to be held in the warehouse, and minimised the amount of stock that went past its expiration date. As many of the medical products require special care, these products were assigned special status and treated with extra care.

## Skills

Technical skills have featured prominently in my education and work career. A heavy emphasis on research and developing novel ideas characterises my current day to day skills as a Ph.D. candidate. However, I am also expected to present these ideas in a coherent and meaningful manner to other technical and non-technical individuals. As part of my Ph.D. studies, I have published several peer reviewed conference papers and posters, and presented the work contained therein to audiences of my peers.

As previously mentioned, I have worked with numerous computer languages, Java, C++, PHP, HTML, CSS, and Javascript, to name a few. Having recently published a module for the open-source community, I have an appreciation for writing manageable and human-readable code.

Outside of my research skills, I have excellent communication and inter-personal skills, acquired through extensive presenting experience and frequent attendance at networking events, both of a technical and non-technical nature. As an undergraduate I undertook the CRAC: Insight into Management Course, an extra curricular module offered as part of TCD's Engineering course.

## Other Interests

Skiing is a keen interest of mine, every year I try to get at least two weeks on the slopes; last year I completed the 'Escapades' in the Three Valleys, France. Having completed the Dublin-half marathon, I have now set my sights on a full marathon in the next 12 months. I have attended two DrupalCamp events, DrupalWest and Drupal at DERI NUIG, presenting at the most recent one. My presentation was titled "Theme Development - jQuery and Zen-based", and was aimed at beginners and intermediates. I have always taken a personal interest in problem solving and specifically the intricacies of mathematical puzzles, as a result of this I recently started solving the mathematical problems on Project Euler.

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