Christopher Edward Atkin-Granville

Phone: +1 415-967-9255
Email: contact@chrisatk.in
Web: http://chrisatk.in

Education

2012 – 2013   MASTER OF SCIENCE in Computer Science, University of Edinburgh
With distinction. Specialism in *Computer Systems, Software Engineering and High-Performance Computing*. Modules include *Design and Analysis of Parallel Algorithms*, *Threaded Programming* (at EPCC), *Distributed Systems* and *Multi-Agent Semantic Web Systems* (see all modules).

2009 – 2012   BACHELOR OF SCIENCE in Computer Science, University of Keele
With first-class honours (*summa cum laude*). Modules included *Advanced Programming Practices*, *Computational Intelligence 1* and *2*, *Advanced Databases & Applications* and *Communications & Networks*; additional modules in mathematics, forensic science, Russian language and astrophysics.

2002 – 2009   Yarm School, United Kingdom
10x GCSE, 5x GCE (Advanced/Advanced-Subsidiary Level)

Experience

2013 – present   Software Engineer (intern), GuideSpark – Menlo Park, California, United States
Through the Silicon Valley Internship Programme. GuideSpark creates and distributes interactive multimedia for corporate education. I am working on their backend systems using Ruby on Rails, Backbone.js as well as creating new functionality for their next-generation platform to be released later this year.

2012   Software Engineer, University of Keele – Staffordshire, UK
Interdisciplinary collaboration between School of Computing and Mathematics, School of Health and Rehabilitation and the Research Institute for Science and Technology in Medicine. Developed a C#/.NET 4.0 application using Kinect APIs to support data collection as well as C++ and MATLAB data collection and processing applications.

Research

2012 – 2013   **Auto-Threading Compilers**

My MSc dissertation investigated compile-time profiling of Java Virtual Machine programs for dynamic parallelisation detection. I am working with Dr. Christophe Dubach and Dr. Björn Franke to build a profiler (using the Graal compiler infrastructure) for all memory operations in an application. The end goal is to detect - and transparently convert - parallel loops dynamically at runtime.

2011   **Gait Analysis**

I worked for three months as part of an interdisciplinary collaboration between the School of Computing and Mathematics, the Institute for Science and Technology in Medicine and the School of Health and Rehabilitation. The project was funded by EPSRC and investigated low-cost approaches to gait analysis.

2011 – 2012   **Medical Image Analysis**

Supervised by Dr KP Lam, my undergraduate dissertation investigated the use of fractal image analysis techniques within the domain of medical image analysis. A collaboration with the University Hospital of North Staffordshire, it is forming part of several upcoming publications.

Skills

Programming Languages
Java, Ruby, C, C++, C#, MATLAB, PHP, JavaScript and Python

Frameworks and Libraries
Image Processing, Computer Vision, Neural Network and Parallel Computing toolboxes (MATLAB); AWT, Swing, RMI, Processing (Java); .NET 4.0, WPF, Kinect SDK (C#), CodeIgniter, Kohona, Fuel, Lithium, Joomla (PHP); OpenMP (C); OpenNI, OGRE, Open Dynamics Engine (C++); MooTools, jQuery (JavaScript); Ruby on Rails, Cucumber, Capybara (Ruby); Cocoa (Objective-C)

Miscellaneous
LaTeX and XƎLaTeX, LibreOffice, Microsoft Office, Adobe Photoshop, Eclipse, NetBeans etc. Excellent working and theoretical knowledge of (Mac) OS X 10.4+, Windows XP & later and Linux, especially Red Hat-based distributions.

Honours

2013	Awarded distinction for Master of Science degree (10% of class achieved distinction)
2013 - 2014	Member of Silicon Valley Internship Programme, Class of 2014
2012, 2013	Bathurst Educational Foundation Scholarship
2012	European Science, Engineering and Technology IT Student of the Year (Nomination)
2012	Graduated joint top of class from Keele

Talks

Sept 2012   *Low Cost Approaches to Gait Analysis* (poster, slides)
Research Institute for the Environment, Physical Sciences & Applied Mathematics
University of Keele

Miscellaneous

2011 – 2012   President, Keele University Computing Society (now Keele University Computing and Innovation)
2009 – 2011   Secretary, Keele Gliding Society
2007 – 2008   Microsoft Certified Professional and Desktop Support Technician; City & Guilds Diploma in IT Support
2008   Young Enterprise regional finalist
2006 – 2007   Attained European Computer Driving License (including unit E)
2004 – 2009   Member of the Combined Cadet Force (RAF Section) at Yarm School

References

Available upon request.

All details correct as of October 14, 2013