

# Daniel Burrell

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## Education & Qualifications

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### **MEng Computing (Software Engineering)**

**Imperial College London**

2006 – 2010

This degree has provided me with a professional formation in the science and engineering of computation and also specialised engineering education in the methods, tools, techniques and processes underlying development of large and complex software.

Various intricate practical projects have strengthened my analytical skills and enhanced my understanding of the design and use of industry tools and software, in addition to providing me with invaluable interpersonal skills when working in a team.

### **A Levels**

**The Sixth Form College Solihull**

2004 – 2006

Mathematics (A), Computing (A), Music Technology (A), AS Physics (B)

### **GCSEs**

**Light Hall Secondary School**

1999 – 2004

Mathematics (A), Physics (A), Chemistry (A), Biology (A), German (A), English (A), Graphics (A), French (A\*), Spanish (A\*), Music (A\*)

## Professional Experience

### **Technology Associate (Goldman Sachs)**

2013 – Present

- Worked in Derivatives Trade Processing team on EU regulatory reporting enhancements.

### **Technology Associate (Morgan Stanley)**

2010 – 2013

- Designed and implemented an extensible distributed enrichment framework for referential data achieving sub-millisecond performance. Used middleware messaging to provide data-change notifications and used JGroups replication to broadcast these in a more scalable fashion. Appropriate use of design patterns, software design principles, and testing to allow the system to be extensible and maintainable. Actively used Clover to review test coverage and provide high confidence testing evidence for weekly deployments. Noted by practice area head as demonstrating a strong sense of ownership.
- Built a web-based Runbook to facilitate consistent deployment across environments.
- Worked with a global team adhering to strict SDLC processes and policies.

### **Technology Analyst Industrial Placement (Morgan Stanley)**

2009

- Combined Qlikview business logic with Java/Perl/Sybase Technology to produce the prototype to a firm-wide IT rollout of a Balanced Scorecard.

### **Undergraduate Research Opportunities Program (Imperial College London)**

2008

**Science Teaching Assistant, Villiers High School, London. (Excitec)**

2007

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## Skills

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**Current/Advanced Knowledge:** Java (Spring), MQ, Concurrency, Software Design Patterns, AngularJS, Play-Framework, Unit Testing & Mocking, SCM (P4, Git, Mercurial, SVN), SDLC Tooling (Team City, Confluence, Jira, Crucible), Maven, SOLR, Scrum, JSON, Protobuf

**Previous/Working Knowledge:** C, C++, Qt, Perl, Qlikview, Sybase, MySQL, Puppet, Chef, PHP, Python, Codelgniter, Haskell, Prolog, Delphi, C#, T-SQL, Ivy, AntBuild, DB2, PostgreSQL

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## Awards & Competitions

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- Associateship of the City and Guilds of London Institute (ACGI)** 2010
- Awarded in recognition of professional achievement.
  - Exclusive to Imperial College Engineering and Computing graduates.
- 1st Round IBM Mainframe contest.** 2007
- First 200 to finish working on an IBM mainframe system via remote connection under pressure and time constraints to complete tasks.
- UK Mathematics Challenge – 3 times Bronze Award.** 2002, 2004, 2005
- A national mathematics competition held in schools and colleges.
  - Developed time management skills.

### School Awards:

- Light Hall School Physics Award. 2003
- Received merit bronze Crest award in Science. Represented school in regional finals. 2002
- 1 years 100% attendance. 2002
- 1<sup>st</sup> place Roland Piano Competition Beatties. 2001
- Light Hall School Outstanding Report. 2001
- Year 7 & 9 music prize. 2000, 2002

## Additional Information

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### Professional Body Membership

- Member of the British Computing Society (BCS)
- Member of the Institute of Engineering and Technology (IET)
- Scrum Alliance Scrum Master (CSM)

- Science and Engineering Ambassador, Imperial College London.** 2007 – 2010
- Supported teachers in delivering the curriculum.
  - Inspired young people about science, technology, engineering and mathematics.

- 1<sup>st</sup> Year Computing Department Representative, Imperial College London.** 2007
- Acted as a voice for 1<sup>st</sup> year computing department.
  - Liaison with staff on behalf of the students on issues which affected them.
  - Made an impact by changing the delivery method for lecture notes for a course.

- Top 10 National A level Result for Music Technology.** 2006
- Demonstrated excellence by achieving one of the top 10 highest scores nationally at A-Level for Music Technology.

- Member of the National Academy For Gifted And Talented Youth (NAGTY).** 2005 – 2008
- Top 5% of students in the UK.
  - Achieved GCSE Capped Point score of 58 in top 8 subjects.

### Personal Projects

- Enjoy writing software at home during spare time.
- Opportunity to experiment with technologies, stacks and architectures outside of work such as NoSQL, Restful services, Java Concurrency, ApacheMQ,

## References

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Available On Request