

# Thomas Whitton

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## SUMMARY

An intelligent software developer with strong mathematical skills. Very enthusiastic about technology. Always reading, coding, learning and improving.

## TECHNICAL

Experienced with:

- C++, Python, JavaScript and Ruby.
- STL, Boost, Qt, Django, jQuery, Node, Rails and Angular.
- PostgreSQL, MySQL, SQLite and MongoDB.
- Ubuntu, CentOS and Windows.
- Make, CMake, Git, Vim and GDB.
- Object Orientated Design, Concurrency, MVC and RESTful Architecture.
- Test-Focused Development, Agile and Scrum.

## CAREER

**BAE Systems Detica** (2011 - present)

*Software Developer, Electronic Systems Group.*

- Developed and maintained complex multi-tiered and multi-platform high-availability systems.
- Designed and developed high speed real-time C++ applications for Linux, with extensive use of the STL and Boost libraries.
- Developed tools and test-harnesses, using C++, Python and Ruby, to aid in end-to-end and component-level automated testing.
- Gained substantial experience using and analysing low-level network and transport layer protocols.
- Developed front-end web applications for various systems using Python, Django, JavaScript and Ruby on Rails.

**Defence Science and Technology Laboratory, MOD** (2009 - 2011)

*Electronic Engineer, Electronic Countermeasures.*

- Increased the efficiency of automated testing systems by optimising code and implementing improved algorithms.
- Designed and developed a proof-of-concept device and its microcontroller interface for a long-term research project.
- Researching, implementing and evaluating digital signal processing techniques to increase the performance and efficiency of equipment.

## EDUCATION

**University of Bath** (2005 - 2009)

*MSci Mathematics and Physics (First Class Honours).*

- Advanced mathematical, optimisation and simulation techniques.
- Dissertation involved creating a substantial C application to simulate the chemical and mechanical characteristics of complex carbon nanostructures.

**Chislehurst and Sidcup Grammar School** (1998 - 2005)

*A Levels: Computing A, Maths A, Physics A, Chemistry C.*

- Cedric Morley award for Physics.
- Outstanding A level results award.