

# Tom Farmer

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## Education

### Swansea University (2014-present)

MSc. Computer Science (pending dissertation)  
Predicted **Distinction** based on 90% average

### University of York (2009-2012)

BSc. (Hons.) Economics, **2:1**

### Gorseinon College (2007-2009)

A-level: Computing, **A**; Economics, **B**; History, **B**; Mathematics, **B**

## Skills

### C/C++

- Very good knowledge of C and C++, including C++11
- Experience with common tools (GCC, Visual Studio, makefiles, etc.)
- Experience with common libraries (OpenGL, OpenCL, MPI, etc.)

### Java

- Good knowledge of Java
- Experience with common tools (Eclipse, JUnit, etc.)

### Other languages

- Significant knowledge of Python
- Exposure to many others (Rust, Ada, Haskell, Assembly, Scala, etc.)

### Notable projects (see my [portfolio](#) for further details)

- Continent Construction Kit: Library using simple structures to model continental interactions and efficiently produce semi-realistic geographic features.
- Wizmatch: Example implementation of game engine featuring deferred rendering, zone/portal culling, a binary-encoded model format and custom tools.
- Ray tracer: Featuring reflection, multi-threading, anti-aliasing, depth-of-field, HDR rendering and dithering of floating-point colour channels.
- fnet: Simplified C++ interface for enet networking library.
- Dissertation: Evaluating the performance and usability of task parallelism on Intel Xeon and Xeon Phi processors.

### Other

- Experience with version control (Git, Subversion) and issue tracking (Redmine)
- Experience of common testing methodologies
- Experience of parallel programming, including use of HPC Wales supercomputing cluster and Intel Xeon Phi coprocessor
- Experience with 3D modelling packages (Blender, SketchUp)
- Experience with game engine tools (TES Construction Set, UnrealEd)
- Experience with Linux
- Academic experience of statistical analysis
- Japanese Language Proficiency Test, Level 4 (2009)
- Chairman of University of York Anime and Manga Society (2011)

## Experience

### Harrogate Borough Council, Intern (2013)

As an intern at Harrogate Borough Council, I was tasked with reporting on the council's social housing allocations policy as part of an on-going consultation process.

## References

Available on request