Tom Wallis

I'm an MSci computing science student from Glasgow University, in his fourth year, with an appetite for novel solutions to complex problems.

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Computing Science

Many computing science students have the same skillsets: ordinary taught languages, maybe a little web or app development from a hackathon.

I don't program because I'm a computing science student; I'm a computing science student because I love code. This means I have a familiarity with functional programming, workflow modelling and sociotechnical systems, and security.

The workflow modelling project has now been compiled into an academic paper, currently submitted to ASE2016 in Singapore!

What I Do

I have a fascination with complex systems and love beautiful solutions to unusual problems; hence my interest in paradigms such as Functional Programming. As a result, I've grown to work with independent, free thought and approaching issues in novel ways.

While I have a background in algorithmics and constraint programming, half of my spare time goes to quite unrelated things; I'm very interested in typography and text design, as well as philosophy and decent coffee. When I'm unwinding, I usually play video games.

Projects currently in progress:

Music Organiser	A program to intelligently reorganise music libraries based on file metadata
Project Albert	An attempt to use software engineering practices to make better childrens' bedtime stories
Fuzzi Moss	A Python library for creating models of human behaviour with inherant unreliability, currently used for research

Information on these (and links to source code!) can be found at http://tomwallis.net/.

Novel Solutions

I enjoy making tools that make life easier. Projects include music organisation scripts, and tools for setting up configuration files for everything I do in the shell.

I try to solve problems in interesting ways when I can. For example, I am in the process of developing a pattern language, inspired by software engineering practices, for improvising childrens' bedtime stories.

https://github.com/probablytom/rcfiles

http://projectalbert.net

More

With my interests and projects being far-flung, a long CV could get very long; as a result, I have tried to keep this as short as possible. If you want to see more, I maintain a list of active projects at my personal site, linked to in my contact details. My academic record can be found there, too. If you'd like to get in touch, please do!

Some courses Taken:

Masters Level Constraint Programming	**TBA**
Level 4 Algorithmics	**TBA**
Level 4 Cyber Security	**TBA**
Level 3 Team Project	**A3**
Level 3 Programming Languages	**A5**

Languages	Paradigms	Interests
Python	Functional	Haskell
Java	Constraint Programs	Design patterns
LaTeX	Web	Efficient code
JavaScript	Algorithmics	Organisation