

Sam Barratt

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Code Portfolio: www.github.com/samathy

Profile

An inquisitive and enthusiastic computer scientist with a drive to understand how and why software and hardware aspects of computers and computer systems work.

Passionate about learning all the deep, complex technical details and applying that knowledge to ambitious projects in fields such as operating systems development, embedded systems development and efficient, low-level software

Keen to teach technical subjects to others in order to help them learn and better their own understanding.

A motivated Team member with good listening and reasoning skills with a constant aim to achieve consensus and the best final result possible.

Technical Skills

Programming Languages:	C, C++, Python, x86 assembler(NASM), PHP, Visual Basic.NET
Networking Infrastructure:	Cisco IOS and Cisco devices
Web:	HTML, CSS, Drupal
Operating Systems:	GNU/Linux, NetBSD, FreeBSD, Microsoft Windows XP upwards
Version Control:	Git
Development Enviroments:	Microsoft Visual Studio, Vim
Build systems:	GNU Make
Specilist Software:	Bochs x86 PC emulator, Qemu
Web servers:	Apache, Lighttpd

Education and Qualifications

2014 - Ongoing | Coventry University
Computer Science BSC

Modules:

Introduction to Programming, Enterprise Information systems, Designing for Usability, Computer Architecture and Networks, Logic and Sets

Real World Project, Operating Systems, Security and Networks, Programming Algorithms and Datastructures, Data Information and Retrieval, Software Engineering, Technology and its Social, Legal and Ethical context.

2012 - 2014 | Henley College Coventry | D D* D*
BTEC Computing

Modules:

Computer Systems, Information Systems, Software Design and Development, Technical Support, IT Trouble Shooting and Repair, Event Driven Programming, Database Design, Maintaining computer systems

Computer Games, Web Server Scripting, Website Production, Digital Graphics, Digital Graphics for Interactive Media.

Included:

Cisco Networking for home and small business, Cisco Networking for medium business and ISP

Work Experience

April 2015 - Ongoing | **Coventry University**
Student Advocate

A paid student role comprising of:

- Subject Ambassador on University Open Days - A role involving confident interaction with prospective students and their parents, being friendly, approachable and knowledgeable.
- Lab setup - Trusted with setting up lab rooms with laptops before and after the day's lab sessions.
- Also includes working with EC Futures - The Faculty Employability and placement department, doing essential work involving maintaining the list of available placement opportunities for students.

11/05/2015 to 03/07/2015 | **Actemium: Final Assembly Systems (Vinci Energies UK)**
Temporary Technical Engineer

- Implemented complex new C code to abstract CAN bus data transfer through PEAK systems CAN to USB cable (hardware) over sparsely documented Linux SocketCAN interface to an existing common interface used within Stratus 7. This code allowed Actemium:FAS to support use of PEAK CAN cable for interfacing between PC and vehicles.
- Contributed bug fixes to Cogent Systems SRRIPC Linux Kernel Module to improve performance and stability of Actemium's Stratus 7 shop floor software suite on multi-core machines.
- Configured Debian GNU/Linux distribution for Beagle Bone Black development board with the aim of reducing boot times.
Achieved sub 7 second boot time through custom Linux kernel config and other OS configuration modifications.

30/06/2014 to 29/07/2014 | **Coventry City Council - ICT development department.**
Systems Analyst

Worked alongside graduate employees to develop Microsoft SharePoint 2010 and Online solutions using in built Sharepoint tools, Javascript and Sharepoint designer for use inside the council and in council services.

Used business analysis to create solutions which solved problems at hand. Communication with internal clients was required to ensure that the solutions were usable by other employees as well as being functional.

Late 2012 - Mid 2014 | **The Herbert Art Gallery Coventry**
Volunteer

Volunteering in roles:

- Marketing assistant - Assisting with the design, development and deployment of the Herbert art gallery's new web site.
- Gallery assistant and welcome host - Where dealing with the public is key.

Other Voluntary work

- Volunteered at PyConUK 2015 taking on responsibilities in chairing several talks at the conference.
 - Volunteer Assistant Cub Scout leader at the 3rd Coventry Cub group. Helping other young, assistant and full leaders with organising and running weekly Cub nights where 7 to 10 year old Cubs take part in games and scouting activities. Additionally Assisting in the organisation and running of weekend camping trips where often over 40 children attend and taking part in activities such as Firelighting, Backwards cooking, Climbing and Archery.
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Hobbies

- Developing open source software and contributing to open source projects. (www.github.com/samathy/)
- Reading a variety of books.
- Playing Team-based video games on PC such as Counter Strike.