Patrick Bowen

http://v.ht/**Portfolio**

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Profile

A passionate hobbyist & professional in a wide range of technologies from full-stack web to electronics. I adore learning, and will operate with systems/skills beyond my original role, enjoying inter-discipline teamwork.

Education

Sept'17 – Jul'20: Staffordshire University

Predicted First for BSc (Hons) Computing Science with 12mo placement (GE);
Distinction for HND Applied Computing.

Sept'13 – Jul'17: Shrewsbury College

Dist+Dist+Merit BTEC Extended Diploma: Computing & I.T.

Jan'09 – Jun'13: William Brookes Secondary

GCSE: B, English, Maths, Chemistry; C, Physics, Biology, History, Geography.

Technical Skills

C# (last used in 2019), professionally from small to corporate solutions, employing MVP and common OOP patterns; .NET Core;
Clojure ('19), a functional-paradigm JVM language, for data & websites;
C/C++ ('19) inc. SFML, for terminal-based tools, graphical games, drivers;
{JavaScript, HTML, CSS, PHP}('19), in many personal/community websites;
Electronics ('19), interpreting & contributing to circuit design & assembly;
SQL/SQLite & MySQL ('18), academically and within Android/PHP;
Arduino ('19), in fun electronics projects & low-resource challenges;
Python ('19), for teaching and quick scripting;
Android Java/Kotlin ('19), see exercise tracker app in my portfolio;
Raspberry Pi ('19), who doesn't love 'em?
Nearly one of each can be seen used in my portfolio.
Habitual user of Visual Studio; Ubuntu, Windows, Android, and Raspbian; Libre & Microsoft Office, Gdrive, Dropbox, Box; GIMP & Inkscape; Chrome/ium & Firefox; Github & Atom, SVN; Mono.

All institutions & events within the United Kingdom, unless expressed otherwise. Updated 24/06/19.

Work Experience

Jul'18-Jul'19: Software Engineer @ Baker Hughes/General Electric

Intern contributing to oil & gas "down-hole & surface" well data acquisition, developing data analysis & visualisation, compression, UART, TCP/IP, physics simulation, WebSockets, WinForms & WPF, Mono; SVN, solution management, MS DevOps; high-voltage equipment. Conducted UK-wide intern presentations, also tours and programming classes for children.

Throughout '18: Freelance Private Tutor

I was a paid private tutor in KS3/GCSE Math, GCSE/A-Level CompSci.

Feb'16 – Jun'17: Volunteer Tutor @ Wrekin Housing Trust

Three hours per week one-to-one assisting/teaching +50 y/o residents to use computers, the Internet, and other digitals. I have a patient, friendly approach, breaking down concepts for individuals' need & ability.

Achievements

- General Electric Impact Award worth £70 for 6hr day of teaching Python;
- vInspired 'v50' (vinspired.com), for volunteering @ Wrekin Housing Trust;
- St John's Ambulance First Aid at Work (expires 03/2021);
- 100% Attendance for multiple terms at college & throughout secondary;
- 'Rising Star', 2013, and 'Most improved', 2015, Shrewsbury College.

Hobbies & Experience

In sports & outdoors, I enjoy Fencing Épée; refereed & participated in regional competitions. Also indoor rock-climbing, and daily exercise routine. I have mixed programming with these activities, developing an Arduino solution for hit-detection/scoring in Fencing matches, and an Android app for keeping track of my exercise.

In management and community, I have been an active member of a political party, regularly organising/conducting talks, meeting with fellow members & the public, holding stalls and paper sales. I enjoy lecturing and community engagement/discussion, to all group ages and sizes.

In spoken language, I enjoy developing artificial human languages, scripts and digital fonts. They are more regularised and easy-to-learn than natural languages. I can read simple Italian.

At home, I enjoy cooking, chatting online, and follow a vegan lifestyle.

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