

Patrick Bowen

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plu.sh/portfolio



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**
Pending 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.

Work Experience

- | Jul'18-Jul'19: **Jr. Software Engineer @ Baker Hughes/General Electric**
Contributing to oil & gas well data acquisition, developing data analysis & visualisation, physics simulation; development & workflow composition; compression, UART, TCP/IP, WebSockets; WinForms & WPF, Mono; SVN, solution management, MS DevOps; high-voltage equipment. Conducted UK-wide intern presentations, also tours and Python 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. I have mixed code 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 regular and easy-to-learn than natural languages. I can read simple Italian.

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