Peter West

Full-Stack Web Developer and Computer Science Researcher

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github.com/FlamingTempura
Oxford, UK

Key skills

Programming: Expert at JavaScript, node.js, Angular, Cordova, PostgreSQL, d3.js, LESS, PHP. Proficient at WebGL, Java, Git, C++.

Sysadmin: Expert Linux user. Configured and maintained virtual servers (DigitalOcean, Linode, VMWare, Google Cloud Platform) and web servers (Nginx and Apache).

Communication: Team leader and experienced at public engagement to large audiences at academic conferences and within central government.

Design: Keen eye for UX with academic specialism in human-computer interaction, healthcare information design, and participatory design.

Experience

Technical Lead *Pinch Medical Systems Ltd*   *2015-present*

Leading a team of developers and clinicians to develop mobile technology (Angular.js, Cordova) for patients with heart failure, with a focus on UX for elderly. Implemented encrypted RESTful health record server (Node.js, PostgreSQL). Use of Scrum and test-driven development to adapt to rapidly changing requirements of hospitals and funders. Automated markdown API documentation generation through custom code interpreter.

Software Engineering Researcher *University of Southampton*   *2013-present*

Developing technology for large dataset management in AI research under Dame Professor Wendy Hall with PETRAS project. Tech based on Git and CouchDB.

Digital Policy Advisor *Open Innovation Team, Cabinet Office*   *2018*

Advised Cabinet Office on policy around eHealth, automation, blockchain, and AI. Learned to quickly adapt to deep-dive projects around unfamiliar topics. Gained understanding of policy-making, inner workings of government, effective task management, and succinct communication with officials. CTC clearance.

Intern Web Developer *Open Data Institute*   *2012*

Developed ODI's Drupal website during formative time of the ODI under Nigel Shadbolt. Designed d3.js and WebGL visualisations of TfL and Ordnance Survey open data.

Education

Web Science PhD (passed, awaiting edits) *University of Southampton*   *2013-present*

Research topic: Can consumer wearables (e.g. Fitbit, Apple Watch) help doctors and patients manage chronic health conditions? Interviewed UK/US doctors to understand barriers to using such data and co-designed a tool for visualising and analysing data. Contributed recommendations for designing clinical tools for using health data. Presented work at Royal Society in London and National Supercomputing Centre in Wuxi, China.

Selected publication: West P, Giordano R, Van Kleek M, and Shadbolt N (2016). The Quantified Patient in the Doctor's Office. The Conference on Human Factors in Computing Systems (awarded honorable mention).

Software Engineering MEng (first, hons) *University of Southampton*   *2009-2013*

Interests in human-computer interaction, computer graphics, web technologies, and quality assurance. Developed leadership and communication skills, with exciting group projects and public engagement talks. Class Representative at Student-Staff Liaison Committee.

Projects   **BibTeX Tidy**   *github.com/FlamingTempura/bibtex-tidy*

Open source online/CLI tool for intending, correcting, and analysing BibTeX bibliographies. Comprises a PEG parser and rules for reconstructing file. Written in JavaScript.

BlazeByte   *blazebyte.org*

Sole developer of open source Windows-like web app for Sony PSP. Amassed over 1m downloads. Launched and maintained an associated PHP forum with 5k active users.

Interests   Regular runner and competitor in races and parkrun. I travel when I can and am taking a Spanish language course. Hobbyist of digital electronics, participator in game jams, and contributor to open source projects.

References available upon request.