Peter West

Software Engineer and Researcher
in Healthcare Technologies

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Personal statement

Experienced software engineer looking for exciting work in innovative health tech. MEng in Software Engineering and currently completing a PhD at the University of Southampton with a focus on clinical workflows for using data. Technical lead at Pinch Medical, which focuses on developing secure, patient-owned health records. Advised central and local government on digital health policy. CTC clearance.

Key skills

Programming: Expert full-stack web developer. Strong with ES6, Angular, node.js, PHP, Git, PostgreSQL, WebGL, d3.js, LESS, Cordova. Experienced with C++, Python, Java, Kotlin.

Sysadmin: Expert Linux user (Arch, Ubuntu). Configured and maintained virtual servers, including VMWare and Digital Ocean, web and email servers, and firewalls.

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

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

Employment

Worked in diverse roles in the following organisations:

2015-ongoing

Technical Lead at Pinch Medical Systems Ltd
Led a team of developers and clinicians in creating technology for patients with heart conditions. Designed mobile app based on Angular.js and Cordova with focus on UX. Implemented encrypted cloud-based health record storage comprising Node.js server with PostgreSQL database. Coordinated international collaboration with hospitals, funders, and a large medical device manufacturer. Used Scrum and test-driven development to adapt to rapidly changing requirements.

2018

Policy Advisor to the Cabinet Office
Seconded to the Open Innovation Team, who aim to deepen collaboration between academia and government. Advised Cabinet Office on policy around eHealth, automation, blockchain, and AI. Learned to quickly adapt to deep-dive projects around unfamiliar topics. Gained an understanding of policy-making, inner workings of NHS governance, effective task management, and succinct communication with officials. CTC clearance.

2013-2019

Research Assistant at the University of Southampton
Researched health data privacy, provenance, and security. Awarded grant to interview doctors in the UK and USA around their use of information systems. Presented the research at the CHI conference, San Jose, USA in 2016 and awarded

honorable mention:

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.

2012 **Open Data Institute (ODI)**
Responsible for development of the ODI's Drupal website during formative moments of the ODI. Designed d3.js and WebGL visualisations of open data from Transport for London and Ordnance Survey.

Qualifications   MEng in Software Engineering and iPhD in Web Science.

2013-present   **iPhD in Web Science, University of Southampton (EPSRC funded)**

(writing-up)   *Research question*: Can consumer health technology (e.g. Fitbit, Apple Watch) help doctors and patients manage chronic health conditions?

Supervisors: Richard Giordano, Max Van Kleek, Mark Weal

Researched how consumer devices can help manage chronic health conditions. Interviewed doctors to understand barriers to using patient-generated data and co-designed with them a web-based clinical tool for visualising and analysing such data. Modelled workflows for using data in clinical settings and contributed recommendations for designing clinical tools for using health data.

Refined public engagement skills by presenting to diverse audiences, including the Royal Society in London, ITMO University in St Petersburg, Russia, the National Supercomputing Centre in Wuxi, China, and the CHI conference in San Jose, USA. Improved time management skills when working independently and collaborating with others. Gave yearly seminars to computer scientists on "Dragons' Den" pitching.

2009-2013   **MEng in Software Engineering, University of Southampton (first, hons)**
Interests in human-computer interaction, computer graphics, web technologies, and quality assurance. Developed leadership and communication skills, with several exciting group projects and public engagement talks. Represented fellow students as a Member of Student-Staff Liaison Committee.

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.