

Sean Parsons

A wealth of experience in software development and science.

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June 2021 -	Software Engineer	Arete Medical Technologies (Cambridge) Small medical device start-up.
		Developed apps for recording, displaying and analysing sensor data streamed from a medical device via WiFi. The desktop app (PyQt, python) is used in-house for R&D and by contractors in device production. The Android app (Kotlin) is being tested in the wild by the NHS. Created models for sensor data processing, based on impulse response function estimation. Developed a web app with cloud storage relayed from Android (Django, Azure). Wrote documentation to IEC 62304 and other medical device standards.
Feb & Mar 2022	Fellowship Course	Faculty AI (London) ML/AI software services and contractor.
		Two weeks of classes on machine learning fundamentals followed by an eight week project. For the project, developed a co-dimensional reduction model to predict adverse drug reactions.
Mar 2020 - Apr 2021	Scientific Software Developer	Enthought (Cambridge) Scientific software contractor.
		Worked on small-team projects in multi-criteria optimization and microbiomics pipelines. Developed desktop apps (PyQt, python) for database search and visualisation in consultation with clients.
2008 - 2020	Research Associate	McMaster University (Canada) Academic research lab.
		Wrote two NSERC grants, bringing in \$500,000. Wrote numerous ImageJ (Java) plugins used by the lab and internationally. Created a neural network (TensorFlow) to distinguish noise from beats in electrocardiograms. Mentored high-school, undergraduate and postgraduate students.
2007 - 2008	Teaching Assistant	Burntwood School (London)
2006	Research Fellow	National Institutes on Ageing (USA)
2003 - 2005	Research Fellow	University of Nevada Reno (USA)
1999 - 2003	PhD	St. George's Hospital Medical School (London)
1996 - 1999	BSc Biochemistry (2:1)	Bristol University
