

Dan Fitch

- OBJECTIVE** I am seeking a challenging position at the intersection of computation and neuroscience, where I can use my strong programming and analysis skills to accelerate the work of researchers. I want to improve tools, replace inefficient systems, and make operations on large datasets more useful and powerful, in the interests of better understanding what makes humans tick.
- EDUCATION** *B.S. Information Science and Technology, UW-Milwaukee SOIS, 2015*
- LANGUAGES** F#, C#, Javascript, R, Ruby, Python, Lisp, various SQL dialects. Exposure to Matlab, Haskell, OCaml, C, C++, Java, Perl, Awk, etc. (*I am a polyglot. If I do not know it, I can learn it.*)
- DATA** Solr, SQL Server, Oracle. Exposure to Hadoop, MongoDB, MySQL, Postgres, etc.
- OTHER TECH** Windows, OSX, Linux, Solaris; exposure to Django, Rails, MVC.NET, lots of JS frameworks, Arduino, Biopac, embedded systems
- SKILLS** Quick learner. Expertise in data wrangling, automation, testing, systems analysis, general troubleshooting, functional programming, technical communication and documentation, L^AT_EX and typesetting, web design.
- EXPERIENCE**
- Undergraduate Software Developer* 2014-2015
Brain Imaging Lab at the Waisman Center, Madison, WI
- Developed Python [psychopy] driver layer for Tobii EyeX eyetracker
 - Designed a secure, central method for uploading various psycho-physiological data
 - Wrote a screen-scraping library to fill in for a broken API in a third party product
- Software Developer* 1998-Present
Legislative Technology Services Bureau, Madison, WI
- Architected new document site: <http://docs.legis.wisconsin.gov>
 - Refined effective metadata search over corpus of 10 million documents
 - Centralized transforms into unified, unit-tested library
 - Automated cross-reference linking for natural-language references
 - Designed new legislature site; assisted with interactive maps.
 - Developed tools for automated deployment, log analysis, and reporting.
- Software Developer* 1997-1998
Electronic Cottage, Inc., Salt Lake City, UT
- Implemented searchable system to archive U.S. Senate session as video and text.
- INTERESTS** Math, statistics, writing, neuroscience and philosophy of mind (how do we define and analyze consciousness concretely?), collaborative decision-making theory, music and its effect on the brain, how creativity functions, artificial and assisted intelligence, physics, how the universe works, and all that good nerdy stuff.
- REFERENCES** Upon request.