
TRAVIS NESLAND

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Experience

Software Developer, Jester Communications — 2015 (May)-Present

Upgrade an existing B2B website, moving from ASP.NET 1.0 to a Ruby on Rails JSON API backed AngularJS front-end. Design an integration layer to facilitate the syncing of data from a SyteLine ERP system, backed by a MSSQL database, with the PostgreSQL used for the B2B site.

Data Analyst / Software Developer, Medical University of South Carolina — 2011-2014 (December)

Developed software to aid in the processing and analysis of diffusion-weighted magnetic resonance images of the human brain. Developed processing and analysis pipelines using a combination of python, shell scripts, Matlab, and R to help delineate abnormalities found in brains associated with certain neurological disorders, such as epilepsy and autism spectrum disorder.

Software Developer, Residential Research Facility, University of Kentucky — 2009–2011

Developed a suite of experimental software for the OS X desktop in Objective-C to proctor experiments and acquire data of human subjects interacting with a number of established psychological paradigms.

CAFM (Computer Aided Facility Management) Specialist, Heery International, Inc. — 2003-2010

Populate and manage multiple instances of relational databases. Integrate details of space and assets with a work order and preventative maintenance system.

Selected Publications and Presentations

- Munsell BC et al. [Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connector data](#). Neuroimage. 2015 Jun 6. doi: 10.1016/j.neuroimage.2015.06.008
- Bonilha L, Nesland T, Rorden C, Fridriksson J. [Asymmetry of the structural brain connectome in healthy older adults](#). Front Psychiatry. 2014 Jan 9;4:186. doi: 10.3389/fpsyt.2013.00186. eCollection 2014.
- Bonilha L, Helpert JA, Sainju R, Nesland T, Edwards JC, Glazier SS, Tabesh A. [Presurgical connectome and postsurgical seizure control in temporal lobe epilepsy](#). Neurology. 2013 Nov 5;81(19):1704-10. doi: 10.1212/01.wnl.0000435306.95271.5f. Epub 2013 Oct 9.
- T. Nesland, L. Bonilha, A. Tabesh, F. Davies, J.D. Clark, P.E. Glaser, R.S. Bhatt, L.A. Ruble, J.E. Joseph. [Graph-theoretic analysis of structural networks in autism spectrum disorder](#). Poster session presented at: Society for Neuroscience; 2012 Oct 13-17; New Orleans, LA.

Additional publications can be found on my [Google Scholar profile](#).

Skills

Languages/Frameworks: Objective-C, Python, Ruby (Rails), JavaScript (AngularJS, D3), R, Shell, Matlab

Additional: Git, Unix Administration

Education

The Iron Yard, Rails Engineering, Charleston, SC, January-March 2015

University of Kentucky, 2009-2011 (completed 82 credits towards Bachelor of Science in Computer Science)
