Nathaniel M. Wilson M.S. Computer Science

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Languages

Advanced: Java, Python, C, Bash; Proficient: C++, JavaScript, HTML/CSS; Familiar: x86, ARM

Projects

- ML model to predict speech rhythm from text, written with both PyTorch and scikit-learn.
- Reddit comment analysis using Hadoop.
- NOAA Weather data analysis using Spark.
- BitTorrent client, written in Java.

Python, and Matlab scripts.

- Zero hop DHT distributed file system, written in Java.
- Fault tolerant, strongly consistent data replication service, built with Spring, written in Java.
- Distributed chat server, using UDP packets, written in Java.
- ARMv4 assembly language emulator, with interactive execution mode, written in C.
- Unix shell, with input and output redirection functionality, written in C.
- Unix heap manager module, written in C.
- Search autocomplete module, written in Java.
- · Burrows-Wheeler compression module, compatible with any Unix file, written in Java.

Lab Manager, Turk-Browne Cognitive Neuroscience Lab, Princeton University, NJ

• Built, maintained, and updated lab and conference websites using Wordpress.

Designed, built and conducted experiments investigating interactions between memory and sleep.

Education

Eddodion	
University of San Francisco, Master of Science in Computer Science, San Francisco, CAGPA: 3.97	8/17 – 5/19
Scholarship: MSCS Merit Scholarship	
 Coursework: Data Visualization, Distributed Software Development, Big Data, Principles of Software Development, Systems Foundations, Algorithms, Machine Learning Teaching Assistant Positions: Algorithms, Network Programming 	
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 Princeton University, courses taken while working, <i>Princeton, NJ</i> Coursework: Introduction to Computer Science, Linear Algebra, Algorithms and Data Structures, Introduction to Programming Systems 	1/16 – 1/17
Colorado College, Bachelors in Neuroscience, Colorado Springs, CO	8/09 – 5/13
Experience	
Software Engineer Intern, Optimizely, San Francisco, CA	6/18 – 9/18
 Built flaky test dashboard, to ingest, analyze, and visualize company-wide software test data. Created an ML phrase recommender feature for company website. Won 2nd place in Hack Week. 	
Research Assistant, Neuroscience of Cognitive Control Lab, Princeton University, NJ	6/16 – 5/17
 Developed a library of network visualization functions for a cognitive modelling Python package. Configured and maintained Jenkins based CI/CD pipeline for the small software team. 	
Data Curator, Princeton Neuroscience Inst Intel Labs Collaboration, Princeton University, NJ	1/15 – 5/17
Built and maintained a large Linux based repository for fMRI datasets.	
• Automated file anonymization, dataset restructuring, file conversion, and data transfer using Bash,	

6/14 - 9/15