TYLER MCDONNELL

Artificial Intelligence & Crowdsourcing Researcher
Embedded Systems Engineer

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Interests

Intern or full-time positions which incorporate data science, NLP, crowdsourcing, or machine learning.

Education

M.S. Expected Fall 2017	Computer Science, University of Texas at Austin GPA: 3.8, *Artificial Intelligence & Crowdsourcing*
B.S. 2013	Computer Engineering, University of Texas at Austin GPA: 3.9, *Computer Architecture & Embedded Systems*

Professional Experience

Research Assistant 2016-Present	*IR & Crowdsourcing Lab*, Austin, TX - IR evaluation using crowdsourcing, innovative design, and machine learning. Primary Technologies: Python, Amazon Mechanical Turk
Contract Engineer 2016	*Ketra*, Austin, TX - Built a regression model for evaluating and improving Ketra IoT network topologies. - Designed a localized error-reporting system for customer-facing software. Primary Technologies: C#, Embedded C, Python
Engineer 2013-2015	*Ketra*, Austin, TX - Designed lightweight file system used across company's embedded portfolio. - Led wireless R&D resulting in 5x increase in network size and simplified UX. - Supervised prototyping and pilot installs of award-winning S38 lamp. - Conducted wireless, embedded, and system-level debugging of all product lines. Primary Technologies: Embedded C, C#, C++, ARM Cortex M-3, WPF
Engineer 2013	*Azul (now TasteBud)*, Austin, TX - Prototyped user-client affinity models for a "reverse-bidding" mobile app start-up. Primary Technologies: Python, scikit-learn
Engineering Intern 2012	**Intel**, Austin, TX - Developed tools used to resolve hundreds of bugs in top priority first-gen Intel SoCs. Primary Technologies: Python, Java, Android, proprietary scripting languages

Selected Projects

2016	*Multi-Task Deep Representation Learning* Investigation of shared architectures for learning across tasks of variable relatedness.
2016	*Synonymy & Antonymy Detection in Distributional Models* Supervised and unsupervised models for resolving synonymy and antonymy in co-occurrence word embeddings using sentimental polarity features.