ANDREW DUDLEY

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EDUCATION

Arizona State University (Ira A. Fulton School of Engineering) Tempe, AZ

- Master of Science in Computer Science *Expected May 2019*
Cumulative GPA: 4.0/4.0

- Bachelor of Science in Computer Science Jan 2014 - May 2017
Summa Cum Laude, Cumulative GPA: 4.0/4.0

EXPERIENCE

Yochan Artificial Intelligence Research Laboratory Arizona State University
Research Assistantship - Supervised by Dr. Subbarao Kambhampati

- Researching Vehicle-to-Vehicle (V2V) planning and communications for augmenting reality enabled smart HUDs to increase situational awareness of drivers

- Designed interface to collect human feedback on robot task plans using a simulated environment.

Teaching Assistant

- Artificial Intelligence • Theoretical Computer Science • Principles of Programming Languages

Data Mining and Machine Learning Laboratory
Undergraduate Research Aide Aug 2016 — Dec 2016

- Developed a distributed web scraping tool to mine data from Twitter hyperlinks (Python).

Allstate Chicago, IL
Application Developer Intern May 2016 — Aug 2016

- Implemented natural language processing pipeline for chat bot, which included word sense disambiguation and concept mapping.

- Analyzed modern natural language processing solutions (SyntaxNet, NLTK, SpaCy).

Rockwell Automation Phoenix, AZ
Information Developer Jan 2012 — Jul 2013

- Developed software solution to publish help documentation into a modern help viewer format.

- Created various tools for automating departmental and localization processes.

- Implemented feature requirements for online help and print deliverables (JavaScript, VBScript).

PROJECTS

An Investigation of Bounded Misclassification for Operational Security on Deep Neural Networks

- Implemented a neural network framework from scratch and trained models using domain-specific distance metrics in attempt to impose bounds on the misclassification rate of adversarial inputs.

EpiFinder Tagging (Capstone)

- A biomedical text annotation tool that uses conditional random fields for named entity recognition to automatically tag ontological concepts. *(Spring MVC, JavaScript, Java)*

Allstate Intelligent Virtual Assistant Challenge
Automated chat client developed in Python

- Awarded cash prize and summer internship at Allstate Headquarters in Chicago, IL.

- Chat bot designed to extract data from knowledge base articles and then use that knowledge to automatically assist users with technical issues and account updates.

- Pre-processing, tagging, and other NLP features implemented with Natural Language Toolkit.

SKILLS

Programming:	Python, C, C++, C#, Java
Web:	Django, Spring MVC, JavaScript
Areas of Interest:	Reinforcement Learning, Deep Learning, Pattern Recognition