

# ANDREW DUDLEY

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## EDUCATION

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### 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  
Relevant Coursework: Statistical Machine Learning, Fundamentals of Statistical Learning, Data Mining
- Bachelor of Science in Computer Science Jan 2014 - May 2017  
*Summa Cum Laude*, Cumulative GPA: 4.0/4.0

## EXPERIENCE

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### 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. *Paper accepted into Virtual, Augmented, and Mixed-Reality for Human-Robot Interaction (VAM-HRI) workshop at HRI 2018.*
- 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 product documentation into a modern format.
- Implemented feature requirements for online and print deliverables (JavaScript, VBScript).

## PROJECTS

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### 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. *Accepted into AAAI 2018 workshop.*

### EpiFinder Tagging (Capstone project)

- 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.

## SKILLS

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