Riley Tallman

realleyriley.github.io/portfolio in linkedin.com/in/rileytallman

EDUCATION

Arizona State University

• B.S. – Computer Science with Honors

Artificial Intelligence Intern – Tempe, AZ

- 3.95 GPA
- M.S. A.I. and Computer Vision, graduating Dec. 2020

3.78 GPA

SKILLS

Programming Languages Libraries Other

Python, C++, git, SQL, C, Java, MATLAB, clingo Keras, sklearn, ROS, OpenCV, pandas, numpy Computer Vision, Machine Learning, NLP, Scrum, AWS, Patents, Linux

 Led a team of four to improve hypergraph database algorithms with AI Used boosted decision trees and a data-driven approach to predict magnetic

• Taught AI concepts like A* search and Bayes nets for 150+ students · Assisted students with AI algorithm implementation in python

EXPERIENCE

Systems Imagination

May - August 2019



Teaching Assistant

August - December 2019



DriveTime

May - August 2018



Cyber Security Intern - Tempe, AZ

- Reduced inquiries by 10% after building a website to handle internal data loss
- · Built automated security dashboards monitoring email & web filtering and anti-virus software with REST APIs and python
- Administered phishing security tests to 5,000+ employees

interactions within molecules using GPU acceleration

CSE471 Intro to Artificial Intelligence – Tempe, AZ

PROJECTS

Senior Capstone

January – December 2019

Autonomous Driving Hackathon (1st Place)

 Led a team of 5 and took 1st place by training a residual CNN to autonomously drive and recognize objects on an NVIDIA Jetson Nano and Sparkfun Robot

Honors Thesis

August - November 2019

Smartphone Computer Vision

 Improved accuracy by 600% after developing a novel algorithm to classify the orientation of an iPhone with computer vision in Swift

Visual Question Answering

February 2020 – Present

Stanford GQA (python)

• Improving VQA methods using state of the art Natural Language Processing and Computer Vision to outperform human performance

Computer Vision

October – December 2019

Edge Detection with Snakes (MATLAB)

• Implemented edge finding algorithms from Snakes: Active Contour Models (1988) to diagnose cardiovascular disease

Hash Table Dictionary

January - May 2018

Word Unscrambler (C++)

 Conglomerated 240k dictionary words into a hash table with collision resolution by chaining which yields linear access time (Big-O of 1)