Riley Tallman

rptallman.github.io/portfolio

□ rptallman@gmail.com

in linkedin.com/in/rileytallman

EDUCATION

Arizona State University Computer Science

• B.S. with Honors 3.95 GPA

• M.S. (specializing in Computer Vision, graduating Dec. 2020) 3.78 GPA

SKILLS

Programming Languages Libraries Other C++, Python, git, SQL, C, MATLAB, clingo, Java Keras, sklearn, pandas, numpy, ROS, OpenCV, dlib Computer Vision, Machine Learning, Scrum, AWS, Patents, Linux

EXPERIENCE

Systems Imagination

May – August 2019



August – December 2019

Teaching Assistant



DriveTime

May - August 2018



Artificial Intelligence Engineer – Tempe, AZ

- · Led a team of four to improve hypergraph database algorithms with AI
- Used boosted decision trees and a data-driven approach to predict magnetic interactions within molecules
- Enhanced predictive models by engineering 1,000 features using an NVIDIA DGX workstation

CSE471 Intro to Artificial Intelligence – Tempe, AZ

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

Cyber Security Intern - Tempe, AZ

- Reduced inquiries by 10% after building a Sharepoint website to handle internal and external data loss of sensitive IT Compliance documents
- 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

PROJECTS

Senior Capstone

January - December 2019

Honors Thesis

August - November 2019

Hash Table Dictionary

January - May 2018

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

Smartphone Computer Vision

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

C++ Word Unscrambler

- Conglomerated 240k dictionary words into a hash table with collision resolution by chaining
- Quickly compared all permutations of an input string in linear time O(1)