Riley Tallman

rptallman.github.io/portfolio

□ rptallman@gmail.com

in linkedin.com/in/rileytallman

EDUCATION

Arizona State University 3.95 GPA

SKILLS

Programming Languages Libraries Other

EXPERIENCE

Systems Imagination May - August 2019



Teaching Assistant

August - December 2019



DriveTime

May – August 2018



PROJECTS

Senior Capstone

January - December 2019

Honors Thesis

August - November 2019

Hash Table Dictionary January - May 2018

Computer Science, BS with Honors (currently hold) and MS (Dec. 2020)

• Conducting research in Artificial Intelligence(AI) and Computer Vision

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

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

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)