Riley Tallman

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in linkedin.com/in/rileytallman

EDUCATION

Arizona State University
Graduating December 2020

Computer Science, MS with Honors, 3.91 GPA

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

SKILLS

Programming Languages Libraries Other C++, Python, git, SQL, C, Matlab, clingo, Java Keras, sklearn, pandas, numpy, OpenCV, dlib, ROS Statistical Machine Learning, Scrum, Jupyter, Linux, Inkscape

EXPERIENCE

Systems Imagination May – August 2019



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

Teaching Assistant

August - Present



CSE471 Intro to Artificial Intelligence – Tempe, AZ

- · Teaching AI concepts and holding review sessions for 150 students
- Assisting students with AI algorithm implementation in python

DriveTime

May – August 2018



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 2019 – Present

Autonomous Driving Worldwide Competition

• Competing to achieve the fastest lap time in a simulated robotic environment using reinforcement learning and computer vision

Honors Thesis

January 2019 - Present

Smartphone Computer Vision

 Achieved 99% classification accuracy with an efficient convolutional neural network to identify the user in Swift for iOS

Hash Table Dictionary

January - May 2018

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)