Riley Tallman

realleyriley.github.io/portfolio □ rptallman@gmail.com in linkedin.com/in/rileytallman publications

EDUCATION

Arizona State University

• B.S. – Computer Science with Honors (2019)

3.95 GPA

M.S. – A.I. and Computer Vision (2020)

4.00 GPA

SKILLS

Programming Languages Libraries Other

Python, Javascript, Java, git, SQL, C++, Swift Express, NextJS, Keras, sklearn, ROS, OpenCV, pandas, numpy React, Computer Vision, Machine Learning, NLP, Scrum, AWS

EXPERIENCE

General Motors

January 2021 - Present



Systems Imagination

May - August 2019



Teaching Assistant

August - December 2019



DriveTime

May – August 2018



PROJECTS

Web 3.0

December 2021

Senior Capstone

January – December 2019

Honors Thesis

August - November 2019

Visual Question Answering

February - May 2020

Software Engineer – Austin, TX

- Developing the front and back end of an ExpressJS React app
- Creating automated unit tests using both Jest with Javascript & Selenium with Java to ensure quality

Artificial Intelligence Intern – Tempe, AZ

- Directed a team of four to improve hypergraph database algorithms with AI
- · Computed boosted decision trees with a data-driven approach to predict magnetic interactions within molecules using GPU acceleration

CSE471 Intro to Artificial Intelligence – Tempe, AZ

- Counseled AI concepts like A* search and Bayes nets for 150+ students
- · Coached students with AI algorithm implementation in python

Cyber Security Intern – Tempe, AZ

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

Ethereum Smart Control (Solidity)

• Created and deployed a smart contract on the Ethereum blockchain and built a web3 application using Next.js to interface with the contract

Autonomous Driving Hackathon (1st Place)

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

Smartphone Computer Vision

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

Stanford GQA (python)

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