Riley Tallman

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EDUCATION

Arizona State University

- B.S. – Computer Science with Honors — 3.95 GPA
- M.S. – A.I. and Computer Vision — 4.00 GPA

SKILLS

Programming Languages	Javascript, HTML, CSS, Python, git, Java, C++
Libraries	Keras, sklearn, ROS, OpenCV, pandas, numpy
Other	Computer Vision, Machine Learning, NLP, Scrum, AWS, Linux

EXPERIENCE

General Motors
January – Present

Software Engineer – Austin, TX
- Building a responsive web application using React and many internal REST API microservices reducing average call time by at least 5-10 minutes saving roughly $100 million per year

Systems Imagination
May – August 2019

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

Teaching Assistant
August – December 2019

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

DriveTime
May – August 2018

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

PROJECTS

Web 3.0
December 2021

Ethereum Smart Contract (SOL)
- Created and deployed a smart contract on the Ethereum blockchain using SOL and built a web3 application using Next.js to interface with the contract

Senior Capstone
January – December 2019

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

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 – May 2020

Stanford GQA (python)
- Experimented with VQA methods using state of the art Natural Language Processing and Computer Vision to outperform human performance