



Nihal Dhamani

nihaldhamani@gmail.com | 281.818.3821 | Austin, TX
 nihaldhamani  nihaldhamani

EDUCATION

UT AUSTIN

B.S. COMPUTER SCIENCE

B.S.A. ASTRONOMY

MIDDLE EASTERN STUDIES MINOR

Expected Dec 2019 | Austin, TX

JOHN FOSTER DULLES HS

Grad. May 2015 | Sugar Land, TX

SKILLS

PROGRAMMING

Proficient:

Python • Java

Working Knowledge:

C • Go • MATLAB • SQL • CSS

Bash • HTML • PHP • JavaScript

TECHNOLOGIES

Git • TensorFlow • Android Studio

OpenCV • Amazon Web Services

Docker

INTERPERSONAL

Project Management

COURSEWORK

Computer Vision

Artificial Intelligence

Software Engineering

Data Structures

Algorithms

Operating Systems

Computer Architecture

Mobile Computing

Statistics and Probability

Linear Algebra

ACTIVITIES

TEXAS BLAZERS

VICE CHAIR OF COMMUNITY

SERVICE | SEPT. 2016 - PRESENT

Service organization devoted to

serve UT Austin and the

surrounding community

EXPERIENCE

NASA JET PROPULSION LABORATORY

SOFTWARE ENGINEERING INTERN

May 2018 - August 2018 | Pasadena, CA

- Improved efficiency of cloud operations for the Mars 2020 Ground Data Systems team
- Established endpoint health monitoring system hosted on AWS making use of various technologies including Docker and ElasticSearch
- Wrote scripts to efficiently manage LDAP security groups
- Employed use of Go to automate the process of GitHub issue labeling for project management

TEXAS SPACECRAFT LABORATORY

SEEKER1 ML/CV LEAD

September 2017 - Present | Austin, TX

- Designed, implemented, and tested machine learning and computer vision algorithms for NASA's JSC Seeker Mission
- Trained a convolutional neural network (CNN) to detect target spacecraft in orbit using Python and TensorFlow
- Developed multi-threaded auto-capturing software to process and save spacecraft images using various computer vision techniques to extract orbital information
- Organized and led weekly team meetings to brief on progress and delegate tasks

METECS

ENGINEERING INTERN

May 2017 - August 2017 | Houston, TX

- Part of the RFID-Enabled Autonomous Logistics Management (REALM) team at NASA's Johnson Space Center
- Designed, implemented, and tested a voice user interface system for an inventory tracking system that is deployed on the International Space Station
- Created a real-time inventory tracking website using data from RFID sensors
- Deployed a server to interact with data from inventory tracking website, RESTful API's, and AWS

PROJECTS

OBJECT DETECTOR

Android application integrated with an object detection model. Allows for saving and retrieval of detected objects

AUTONOMOUS RC CAR

Employed use of Arduino, Raspberry PI, OpenCV, and TensorFlow to create a self-driving car

NBA WEBSITE

Full-stack website organizing information about NBA players, coaches, and teams

PONG

Interactive web game developed in JavaScript with AI implementation