NASHIR JANMOHAMED

www.github.com/nashirj | https://linkedin.com/in/nashir-janmohamed | www.nashirj.com (310) 490-3310 | nashirbass@gmail.com

EDUCATION

University of Central Florida, Computer Science Santa Monica College (SMC), Computer Science UCLA (Bachelor of Music), Ethnomusicology-Jazz Studies January 2021 - December 2022 September 2017 - June 2020 July 2013 - June 2017

SELECTED WORK EXPERIENCE

NASA KSC - Machine Learning/Modeling and Control Intern June 2020 - December 2020

- Built supervised learning architecture that learns system dynamics from operational data.
- Developed reinforcement learning policy to control physical system; in process of deploying policy.

NASA GSFC - Software Engineer Intern (5 hrs/week)

July 2020 - December 2020

• Processing LiDAR data gathered by airborne instrument to facilitate ML for satellite system.

NASA KSC - Robotics and Computer Vision Intern

June 2019 - August 2019

- Developed OpenCV system to track simulated agents & predict trajectory in real-time, enabling autonomous GNC that avoids collisions in dynamic environments.
- Wrote research proposal for multi-robotic system for In-Situ Resource Utilization for NASA call.

NASA KSC - Software Engineer Intern

January 2019 - May 2019

- Improved test framework event processing utility, which eliminated more than 30 failing unit tests.
- Wrote script to parse JSON data from Jenkins server, creating CSV w/ unit test pass/fail history.

PERSONAL PROJECTS

Discrete Math Algorithms Package (DMalgos)

• Created open source python library to compute various discrete math results with interactive GUI.

Camera Locking and Modular Positioning System (CLaMP)

• Designed a camera attachment mechanism for NASA design competition. Design was selected as one of 24 to be tested at Johnson Space Center. More detail at www.nashirj.com/quintessence.

SKILLS AND TECHNOLOGIES

Python, C/C++, Java, MATLAB, Simulink, bash, Rust, NumPy, scikit-learn, Keras, PyTorch, OpenCV, Pandas, Laspy, Git, GitHub, Jenkins, Arduino, Raspberry Pi, ROS, Unix/Linux

VOLUNTEER/EXTRACURRICULAR EXPERIENCE

FIRST Robotics Competition - Mentor (Pink Team #233)

Spring 2019

SMC Robotics Club - Operations Manager

August 2019 - June 2020

AWARDS/ACHIEVEMENTS

Winner - SD Hacks "Best IoT that Incorporates Multiple Nodes"

October 2019

Awardee - Mimi Melnick Double M Award for New Jazz Talent

November 2017

Winner - Angel City Arts Young Artists Competition

September 2016