Shaswat Shukla

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EDUCATION

University of New Mexico | Bachelor of Science in Computer Science — Expected Dec. 2022

- GPA: 3.98/4.0
- Minor in Mathematics

EXPERIENCE

Research Intern (part of NASA ULI Program) — Aug. 2022 - Aug. 2022

Stanford University | Palo Alto, CA

- Project – "**Vision** Based Navigation in TurtleBots"
- **Recorded** 10000 images from TurtleBot cameras using **Rosbag** at **5 frames/sec** to train it to detect static obstacles
- **Collaborated** in a team of **3** to create a Convolutional Neural Network (**CNN**) **model** with an **accuracy** of **80%**
- Technologies used: **Python**, **TensorFlow**, **Keras**, **ROS, Linux**

Summer Intern — May 2022 - July 2022

Purdue University | West Lafayette, IN

- Project – "Form + Function 4-D Printing"
- **Created** CAD model of an **IoT** based "smart" bicycle crank using **Autodesk Fusion 360**
- Externally **embedded** electrical components in bicycle crank for functionality using pick and place method
- **Developed** a single page application (**SPA**) to display the resistance change in the bicycle crank using **HTML**, **CSS** and Vanilla **JavaScript**

Computer Consultant — Aug. 2021 - Dec. 2021

University of New Mexico | Albuquerque, NM

- **Responded** to intermediate to complex PC **software** problems in accordance with service level requirement
- **Performed** computer hardware diagnostic, **troubleshooting operating systems** and internet connection issues
- **Assisted** and **trained** students and faculty on how to run wide variety of software on **Windows** and **Mac** computing environments

Summer Intern — May 2021 - July 2021

Purdue University | West Lafayette, IN

- Project- "**Algorithms** for Resilient Coordination and Situational Awareness in Swarm **Robotics**"
- Wrote **Python** scripts for simulating various task allocation algorithms used for assigning tasks to robots
- Used **NetworkX, NumPy, SciPy** and **MatplotLib** packages in Python to create and visualize coordination in networks of robots in a simulated environment
- **Created** a **Python** simulation to **analyze** and plot the time taken by the robots to agree on tasks using consensus algorithms in a discrete time model

SKILLS

Strong – HTML, CSS, JavaScript

Proficient – Python, Java

Database/Frameworks/Preprocessors – React, Node.js, MySQL, SASS, Bootstrap, Materialize CSS, Tailwind CSS

Technologies – Git, VS Code, AWS, Netlify, Vercel