Avi Desai

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EDUCATION

Oregon State University   **Corvallis, OR**
Bachelor of Science in Computer Science   *September 2020 - December 2023*

TECHNICAL SKILLS

Languages: C++, Python (Numpy, Pandas, Scikit-learn)
Frameworks: TensorFlow, Keras, OpenCV, React.js, Node.js
Databases: SQL

EXPERIENCE

Charm Industrial   **San Francisco, CA**
Software Engineering Intern   *June 2022 – September 2022*

- Improved the usability and safety of a Python GUI used to operate Charm's biomass reactors, resulting in a 20% increase in operator efficiency.
- Designed and tested a version control test suite to ensure consistency and viability of internal software updates, reducing potential errors by 15%.

Canvas   **San Francisco, CA**
Robotics Intern   *June 2021 – September 2021*

- Developed a coverage path planning tool with exclusion zone avoidance capabilities, resulting in a 22% reduction in labor costs for robot manipulation in complex environments.
- Prototyped a computer vision tool to detect and classify errors caused by the robot, enhancing project quality and minimizing rework.

Oregon State University - Charisma Robotics Lab   **Corvallis, OR**
Undergraduate Researcher   *Dec 2020 – June 2021*

- Implemented the A* path planning algorithm to enable efficient indoor navigation for a multi-robot system.

Uplift   **Menlo Park, CA**
Software Engineering Intern   *June 2019 – Aug 2019*

- Developed a sandbox website using React.js to assist travel partners with integrating Uplift's "Buy Now Pay Later" travel financing API.
- Created comprehensive documentation to onboard Uplift's API onto travel partners' websites, facilitating smooth integration for Wincruise, Southwest Airlines, and AirCanada.

Stanford University - Human Computer Interaction Group   **Stanford, CA**
Research Intern   *June 2018 – Aug 2018*

- Conducted research and prototyped hardware designs for the Creativity in Cars project, exploring the impact of interactive Amazon Echo games on creative ideation during car trips.

NASA Ames Research Center   **Mountain View, CA**

Software Engineering Intern   *July 2017 – Aug 2017*

- Upgraded the GUI and functionality of Astrobee's ground data Java application, enhancing the efficiency of ground control operations for the autonomous free-flying robot.

REFERENCES

Available upon request.