Oojas Salunke

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www.linkedin.com/in/oojassalunke | U.S. Permanent Resident

Education

Georgia Institute of Technology | Atlanta, GA *Exp. May 2023*
Master of Science in Computational Science and Engineering (Home Unit: Aerospace Engineering) **GPA 4.00/4.00**
- Graduate Coursework: Algorithms, Machine Learning, Optimization, Advanced Design Methods, Deep Learning (S23)

Iowa State University | Ames, IA *May 2021*
Bachelor of Science in Aerospace Engineering

Experience

Relativity Space | Remote/Long Beach, CA
Data Science Internship *August 2022 - Present*
- Creating a tool to identify print to simulation errors by compiling inspection data queried (SQL) from AWS Athena

Systems Engineering Internship *May 2022 – August 2022*
- Owned all operational limits for stage one hot fire which included redlines, bluelines and alarms
- Assembled and processed all the operational limits data and developed a web-based application (Python - Flask) to parse and publish the data to confluence (CI/CD pipeline) in a human readable dashboard

Robotics Engineering Internship *May 2021 – August 2021*
- Implemented stereo/computer vision capabilities to print cells for improved print quality, which utilized two weld cameras to collect and process data (Python - OpenCV)
- Introduced system of systems framework for the print cells to standardize additive printing processes

Georgia Institute of Technology, Aerospace Systems Design Laboratory (ASDL) | Atlanta, GA
Graduate Research Associate (Sponsor – Federal Aviation Administration (FAA)) *August 2022 – Present*
- Perform literature review on Natural Language Processing techniques to collision risk and safety data to prevent accidents and incidents in commercial, general aviation, and rotorcraft operations

Graduate Research Assistant (Sponsor - Lockheed Martin) *August 2021 – May 2022*
- Developed an optimized (Python - Pymoo) decision-making performance-cost tradeoff dashboard (Python – Plotly)
- Studied hypersonic vehicle technology impact on mission effectiveness, which utilized a system of systems approach to run test cases in AFSIM and generate neural network fits (JMP) and conducted sensitivity analysis on the fits

Center for Non-Destructive Evaluation, Iowa State University | Ames, IA
Undergraduate Research Assistant (Advisor - Dr. Thomas Chiou) *January 2020 – January 2021*
- Researched formation of alpha phases in titanium wing blades using ultrasound
- Created a Python GUI Application to collect and process Non-Destructive Testing (NDT) data

Whirlpool Corporation | Amana, IA
Process Engineering Co-op *June 2019 - January 2020*
- Implemented World Class Manufacturing (Toyota Way) and Lean Manufacturing techniques
- Directed the design and implementation of a new dry ice station to reduce foam leaks - $100,000 project
- Redesigned and built a retractable safety pillow system to conserve $80,000
- Designed (PTC Creo), prototyped (3D print) and built 40 tools and fixtures

Skills

Engineering: CAD (PTC Creo, AutoCAD, SolidWorks, Onshape), 3D Printing, ANSYS, Simulink
Programming: Python, C, MATLAB, Linux, LaTeX, SQL, Libraries like Pandas, NumPy, Scikit-learn
Community Service: Feed My Starving Children, Habitat for Humanity, English Together Iowa State
Languages: English and Hindi