

Som Wakdikar

[linkedin.com/in/somwakdikar](https://www.linkedin.com/in/somwakdikar) | somwakdikar@gmail.com | +1 (682) 706-0939

EDUCATION

B.S., The University of Texas at Austin, Austin TX (Class of 2024)

Aug 2021 – May 2024

- GPA: 3.95/4.00, graduated early in 2½ years
- Electrical & Computer Engineering, Software Engineering and Design

Honors Diploma, Texas Academy of Math and Science, Denton TX (Grades 11th, 12th)

Aug 2019 – May 2021

- GPA: 3.95/4.00, early college residential program for high-school students
- Awarded for exceptional academic performance and completing 475 community service hours

EXPERIENCE

Software Engineer @ Lockheed Martin

June 2024 – Current

- Expanded current role to include successful implementation of GitLab CI/CD project pipelines to automate builds
- Demonstrated pipeline to all agile teams which resulted in a larger initiative to expand it to other software domains
- Development of next-gen F-16 mission software using Agile methodologies in C++, Ada
- Reduced time spent for repetitive code conversion through python/bash scripting, regex

Software Engineering Contractor Intern @ NASA

May 2023 – Aug 2023

- Devised a unique solution to provide the CST-100 ground flight-control team with imagery from Boeing's Starliner
- Developed a wiki extension to export Artemis II+ crew training material to international partners (IP)
- Pioneered a VR ISS experience, Node.js web application, new features to flight displays, wiki projects, etc.

Systems/Software Engineering Intern @ NASA

Jan 2023 – May 2023

- Rectified complicated deployment discrepancies between crew and ground displays by thoroughly understanding the architecture of software deployment for mission control displays
- Identified and corrected multiple issues in flight camera display overlays which required thorough analysis of python code, Linux-based deployment architecture, and other proprietary code

Quantum Transport Software Developer

August 2023 – Current

- Extension of Honors Senior Design Project written in Julia to model nano-electronic devices
- Implemented and optimized a matrix inversion algorithm to run exponentially faster
- Refactored codebase with modularization, CI/CD, new interface and features, documentation, etc.

Propulsion Team Leader @ Design Build Fly (DBF) @ UT

Aug 2021 – Jan 2023

- Led a team to optimize propulsion system selection, power management, wiring, wind tunnel testing, data analysis, propeller balancing, receiver programming
- Singlehandedly engineered an urgent solution to a parcel deployment system to complete the mission for our remote-controlled aircraft after other designs and plans had failed for the Systems Team
- Published a design proposal and report, placed top 10th in the international DBF competition hosted by AIAA

Engineering Research @ TAMS

Dec 2020 – Aug 2021

- Stress/strain analysis of shear walls, created and tested cold-formed steel structures, modeled a 155-unit apartment

SKILLS

- Proficient in Python, Linux, Java, CI/CD DevOps using GitHub/GitLab, JavaScript, Julia, C, C++, React.js, OOD/OOP, Full-stack/backend/frontend development, Bash, debugging
- Exposure to Docker, Perl, Unity (VR), Jira, Agile methodologies: Scrum/Kanban, Ada, ARM Assembly, SQL, MongoDB, MATLAB, PCB designing, Autodesk Eagle, Autodesk Revit, Abaqus FEA

PROJECTS

- [Fine-tuning](#) an LLM: Successfully achieved a higher accuracy than GPT 3.5 Turbo on logical reasoning datasets
- Hardware Checkout: Leveraged MongoDB, Heroku, Flask, and JavaScript to create and deploy a full stack web app
- Kaggle Competition: Placed 2nd in Data Science Lab course competition for binary classification
- Weather Application: Java, Android Studio, Google APIs, Weka and tested on an android smartphone
- Augmented Welding: Computer Vision project using Python, OpenCV to simulate a welding path
- Embedded Systems (x2): Communication between two devices using RF technology; engineered a video game
- Earthquake Prediction: Python machine learning model to predict building damage after an earthquake