

EDUCATION**Purdue University – West Lafayette, IN, United States****Expected May 2028**

- Bachelor of Science in Computer Engineering

SKILLS AND PROFICIENCIES**Programming:** Python, Java, C, JavaScript, HTML/CSS**AI & Frameworks:** OpenAI API, LangChain, Scikit-Learn, OpenCV, JAX, FastAPI**Tools & Infra:** Git, VSCode, Pinecone, MuJoCo, Siemens NX, Zoho API**WORK EXPERIENCE****Sharp i-Tech, Mumbai India – Software Engineering Intern****May 2025 – August 2025**

- Designed and deployed an AI-driven document analysis pipeline using OpenAI GPT-4.1 with OCR and FastAPI, automating extraction and classification of data from Bills of Lading, Commercial Invoices, and freight PDFs.
- Integrated the processed outputs directly into the company's dashboard through API synchronization and validation logic, cutting manual data-entry time by 85% and improving accuracy of logistics records.

Hindustan Electric Motors, Mumbai India - Engineering Intern**May 2023 – June 2023**

- Conducted data-driven analysis of induction motor components using thermal efficiency metrics to optimize performance and reduce energy loss
- Developed iterative optimization models for rotor design, improving power output by 2% and reducing thermal losses by 3.5% through simulation-backed design decisions

PROJECTS**Zoho People Virtual Assistant – Lead Developer****May 2025 – September 2025***(Python, OpenAI API, Zoho API, FastAPI)*

- Built and deployed a GPT-based HR assistant at Sarjak Container Lines, handling 600+ Zoho People queries/month (leave, salary, policies) for 200+ employees via natural language
- Integrated OpenAI with secure Zoho API endpoints and fallback logic, reducing per-query time by ~2 minutes and improving internal HR self-service efficiency

Nova-CUA - Backend + Control Pipeline Developer**September 2025 – Present***(Python, Gemini 2.5, InterVL-4B, Torch)*

- Developed GUI grounding agent using InterVL-4B to execute pixel-precise desktop actions (click, type, drag) from natural language prompts in a multi-agent system
- Integrated with planner and coder agents (Gemini 2.5) via composed control pipeline, enabling fully autonomous multi-step workflows like “Open Firefox and search weather in NY”
- Youtube: <https://www.youtube.com/watch?v=Q0IDtuI2iXQ>

TaskFlow AI – Lead Developer**July 2025 – Present***(LangChain, FastAPI, OpenAI API, Google API, Python)*

- Built a DAG-based automation platform that executes prompt-driven workflows across Gmail, Google Calendar, and Sheets, saving ~10 hours/week across 35+ academic/productivity tasks
- Implemented LangChain agent orchestration with modular APIs, error recovery, and task routing logic for scalable multi-step automation

PUBLICATIONS**Design And Development of An Autonomous Agricultural Rover For Planting And Irrigation Systems Using TRIZ****Design Principles (IJSHRE) – First Author****October 2023**

- Utilized an Arduino Uno, solar panels & SOLIDWORKS to construct a self-powered rover for automated farm seeding, along with a proprietary seed ejection mechanism
- Corrected for sensor bias (soil distortions) to ensure fair & consistent navigation decisions

CLUBS**Humanoid Robotics Purdue – Software Team Member****January 2025 - Present**

- Trained RL locomotion models for bipedal agents using MuJoCo and JAX

Autonomous Motorsports Purdue – Software Team Member**January 2025 - Present**

- Contributed to real-time CV pipeline (OpenCV) for autonomous go-kart navigation