Archeet Shah
765-767-0995 | shah1123@purdue.edu | https://www.linkedin.com/in/archeetshah/

EDUCATION

Purdue University – West Lafayette, IN, United States   **August 2024 - May 2028**
- Bachelor of Science in Computer Engineering

Jamnabai Narsee International School – Mumbai, India   **July 2022 – May 2024**
- International Baccalaureate Diploma Programme (IBDP) – 42/45 points

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
Languages: English (fluent), Hindi (native), Spanish (intermediate), French (basic)

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

WORK EXPERIENCE

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

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