
Gagan Karnati

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Education

The Ohio State University
B.S. Computer Science Engineering

Columbus, OH
Graduation year: 2027

Experience

AIGoLearning (Paid intern)

June 2022 – July 2023

- Educated and Mentored 10 students in coding, developing their skills in programming languages and concepts such as Python, Java, SQL and concepts such as Artificial Intelligence and Machine Learning
- Collaborated with parents to formulate tailored student learning plans, resulting in improved student performance and facilitated 15 parent-teacher meetings, effectively communicating student progress and educational strategies. Led 10+ coding projects, guiding students through hands-on learning experiences.

FINCON EPIC VENTURES LIMITED (Paid Intern)

February 2023 – August 2023

- Helped lead a \$10 million, 400-acre land acquisition project, employing and leveraging advanced AI technologies for innovative marketing strategies such as Midjourney, ChatGPT, and other AI Video tools. Analyzed metadata,
- Developed and executed a comprehensive digital marketing plan, enhancing investor engagement and facilitating strategic partnerships, and managed capital-raising efforts and the sale of 400 shares valued at \$23,000 each, significantly contributing to company growth. Implemented ML models utilizing python libraries leading to increase of 20% in profit margins and 15% reduction in investment risks. Utilized PowerBI for creation of dashboards/reports

Nissan North (Part-Time)

February 2023 – August 2023

- Conducted quality checks and control on 50+ new vehicles at Nissan North, ensuring adherence to high-quality standards, and worked alongside Mitsubishi dealership, ensuring vehicle systems met a criteria.
- Developed and managed a detailed Excel System, tracking various features and performed ETL Pipelines.
- Recorded & analyzed data on quality checks, inspection dates, issues & used data pre-processing methods

Projects

Cybersecurity Project,

November 2023 - Present

- Engineered and managed servers on virtual machines (VMs) to simulate and prepare for cyber-attacks, gaining proficiency in defensive tactics and conducted cybersecurity simulations, including DDoS, DoS, and SQL Injection.
- Aim to develop scalable cybersecurity solutions tailored to the unique needs of small-scale businesses in the future.

Software Design Project,

November – December, 2023

- Utilized Matlab to create Connect 4 and Chess Video Games and conducted thorough testing
- Emphasized on algorithm efficiency and user-friendly interfaces for both games and created graphics.
- Collaborated with a team of 3 to design game logic and user interaction elements and presented the games to panel.

H2GO - Smart Water Bottle Project (Team of 4)

January 2020 - May 2020

- Innovative Design and Implementation: Spearheaded the design and development of a hydration tracking water bottle using Arduino, Focused on integrating smart technology to enhance user hydration habits.
- Sensor Integration and Real-Time Data Collection: Incorporated advanced sensors into the water bottle to facilitate real-time hydration data collection, enabling users to monitor their daily water intake efficiently.
- Mobile Application Development: Developing a user-friendly mobile app interface using React Native and Node.js

Activities

Science Olympiad -Placed in states for 4 years continuously

August 2017 – May 2021

HOSA -Placed HOSA Nationals for HOSA Bowl, Top 5 in medical innovation states competition

May 2020 – May 2023

PC Building -Built PC's for small businesses with budget and effectiveness in mind.

May 2020 – July 2020

Awards

AP Capstone Degree, AP Scholar, National Honors Society, Black Belt Certified, Excel Certified, PowerBI Certified.

Skills & Interests

Technical: Python and Java, and Matlab, Web design, Excel, Autodesk, AWS, PowerBI, SQL, ETL, Networking

Language: Native proficiency and fluent in Telugu and English. Proficient in French and Hindi

Certifications: Harvard CS50 (EDx), Computer Networking(LinkedIn), Python (Udemy), and AWS Practitioner

