

ARNIT SINHA

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EDUCATION

University Of Technology

Sydney, NSW

Fall 2024 Study Exchange

Clarkson University

Potsdam, NY

Bachelor of Science in Electrical Engineering

Expected Graduation: May 2026

- **Minor:** Software Engineering

TECHNICAL SKILLS

Languages & Web: Python, C++, NextJS, HTML5, R, CSS, JavaScript, Unix

Tools & IDEs: Git, Kaggle, Linux, VSCode, CLion, NumPy, Pandas, PyQt6

Python Libraries: Beautiful Soup, Keras, Matplotlib, Numpy, OpenCV, Pandas, Plotly, Pyspark, Scikit-learn, Tensorflow

Database Tools: Airflow, Firestore, Hadoop, Microsoft SQL Server, Postgres, RDS, Spark

Technologies: AWS (EC2, IAM, Lambda, RDS), Docker, Firebase, Git, Github, Jira, Jupyter, Node.js, REST

EXPERIENCE

CSpeed, LLC

May 2024 – July 2024

Software Engineering Intern

Syracuse, NY

- Developed an interactive frontend using Angular to display real-time radar data streams and visualizations from radar systems placed across the United States.
- Built a scalable backend with Django, integrating PostgreSQL for database management and RabbitMQ for handling real-time data streams efficiently.
- Employed Chart.js and OpenLayers to create dynamic visualizations and maps, providing users with enhanced situational awareness and monitoring capabilities.

Department of Marketing - Clarkson University

March 2024 – May 2024

Lead Integrated Automation Engineer

Potsdam, NY

- Engineered a custom webhook system and integrated it with the Facebook Developer Portal to manage university's Class of 2028 page and handle chat queries.
- Utilized self-trained Language Model (LLM) with university data to accurately answer user inquiries, resulting in over 15,000 impressions and 5,000 interactions.

PROJECTS

Academ.ai | PyQt6, Python, OpenAI, HTML5, CSS, JavaScript | HackRPI X

- Developed a learning tool utilizing OpenAI's GPT 3.5, that creates personalized learning schedules for individuals
- Conducted rigorous testing processes, ensuring the application's reliability and functionality, resulting in an impressive 99% user satisfaction rate based on post-demo response.
- Employed PyQt6 to create an intuitive graphical interface (GUI) for academ.ai, enhancing user accessibility, experience, and user base expansion.

HeyHoo | CSS3, HTML5, JavaScript, Hugging Face, MongoDB and Python | HooHacks 2024

- Engineered an AI-powered vision assistant tailored for visually impaired individuals, enabling independent navigation through voice commands.
- Integrated natural language processing for seamless interaction, allowing users to access HeyHoo with a simple "HeyHoo" command and inquire about their surroundings.
- Implemented advanced object recognition to accurately describe objects, scenes, and text, fostering inclusivity and confidence in visually impaired users.

AWARDS

Commendable Service: Phalanx Honors - Clarkson University - Apr 2024

Dean's List: Clarkson University - May 2023

Ignite Presidential Fellow: Clarkson University - Aug 2022

(A four-year full scholarship; 1 of 7 selected from a 1000 applicants.)