

# ARNIT SINHA

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## EDUCATION

### Clarkson University

Potsdam, NY

*Bachelor of Science in Electrical and Software Engineering*

*Expected Graduation: May 2026*

- **Relevant Coursework:** Object Oriented Programming, Digital Design, Embedded Systems and UI/UX Design

### University Of Technology

Sydney, NSW

*Fall 2024 - Study Exchange*

- **Relevant Coursework:** Network Engineering, Database Programming, Robotics and Signals and System Processing

## 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 and May 2024

**Ignite Presidential Fellow:** Clarkson University - Aug 2022

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