

# 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, UI/UX Design

### University Of Technology Sydney

Sydney, NSW

Fall 2024 - Study Exchange

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

## EXPERIENCE

### CSpeed, LLC

May 2024 – July 2024

Software Engineering Intern

Syracuse, NY

- Developed an interactive frontend with **Angular and TypeScript** for real-time radar data visualization, resulting in improved user engagement by **20%** through the implementation of **Chart.js and OpenLayers**.
- Built a scalable backend with **Django, PostgreSQL, and RabbitMQ**, enhancing real-time data management efficiency by **40%**.
- Designed a travel router in **C#** by modifying the **vanilla OpenWRT binary**, integrating a **GPS and UVC Camera**, and using **ML.NET** for real-time image analysis and alerts, leading to a **35%** reduction in response time for alerts.

### Cvrve

Dec 2023 – May 2024

Software Engineering Intern

Manhattan, NY

- Led architectural design discussions and implemented scalable solutions using the **Next.js** framework, which improved system scalability by **25%**.
- Collaborated with cross-functional teams to integrate **RESTful APIs**, enhancing application performance by **30%**.
- Developed and deployed dynamic, responsive web applications utilizing **Redux** for state management, resulting in a **20%** improvement in user experience.

## PROJECTS

### HeyHoo | React, Tailwind CSS, Hugging Face Transformers, MongoDB, Python | HooHacks 2024

- Engineered an AI-powered vision assistant for visually impaired individuals using **React and Tailwind CSS**, enabling navigation through voice commands.
- Integrated **NLP with Hugging Face Transformers and Python** for interactive "HeyHoo" voice commands.
- Implemented object recognition algorithms in **Python**, using **MongoDB** for data storage to describe objects, scenes, and text.

### Academ.ai | Python, OpenAI, Langchain, Cloud SQL, PyQt6, Docker, JavaScript | HackRPI X

- Utilized **LLMs** to generate personalized learning schedules, integrating with Google Calendar for automatic event creation and sharing.
- Developed a web server version using **React & Tailwind CSS** with an intuitive interface for generating and managing learning schedules.
- Created a user-friendly GUI version, using **PyQt6** providing an executable for simplified usage.

## TECHNICAL SKILLS

**Languages and Web:** C, C++, C#, Python, TypeScript, Vue.js, HTML5, CSS3, JavaScript, Bash

**Tools and IDEs:** Git, Linux, Visual Studio Code, JetBrains PyCharm

**Database Tools:** Cassandra, MongoDB, MySQL, SQLite, Redis, Elasticsearch

**Cloud Platforms and DevOps:** AWS (S3, DynamoDB, ECS), Google Cloud (GCE, BigQuery), Docker, Kubernetes

## 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.)

Indian Citizen | Available Summer 2025