

ARNIT SINHA

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EDUCATION

Clarkson University

B.S. Electrical and Software Engineering

Aug 2022 – May 2026

Potsdam, NY

- **Coursework:** Object Oriented Programming, Data Structures, Algorithms, Digital Design, Embedded Systems
- **Awards:** Phalanx Honors (2024), Dean's List (2023, 2024), Ignite Presidential Fellow (2022)

University of Technology Sydney

Fall '24 Study Exchange

Jul 2024 – Nov 2024

Sydney, Australia

City University of Hong Kong

Spring '25 Study Exchange

Jan 2025 – May 2025

Hong Kong, China

EXPERIENCE

BetterHelp

Software QA Engineer Intern

May 2025 – Present

Mountain View, CA (Remote)

- Designed end-to-end **test strategies** for web/mobile, uncovering critical bugs and boosting reliability.
- Automated regression suites with **Selenium/Playwright**, cutting manual testing by 40% and expanding coverage.
- Partnered with engineers/PMs to triage defects, streamline fixes, and ship **zero-critical-bug** releases on time.

Cvrve

Software Engineer Intern

Aug 2024 – Apr 2025

Manhattan, NY

- Engineered a URL redirect platform serving **3.6M+ requests/month** with **ClickHouse**, **Express.js**, **Redis**.
- Implemented AI-powered performance monitoring, detecting anomalies and reducing system downtime.
- Built real-time hackathon aggregation engine with **Python/BeautifulSoup4**, automating event discovery.

C Speed

Software Engineer Intern

May 2024 – Jul 2024

Syracuse, NY

- Developed radar visualization dashboard in **Angular/TypeScript**, scaling to 1,200+ daily users with **Chart.js/OpenLayers**.
- Optimized **cloud backends** (Django, PostgreSQL, RabbitMQ) streaming **250K+ data points/sec** with low latency.
- Integrated AI-enhanced GPS + image recognition using **ML.NET + UVC cameras**, powering travel router prototypes.

PROJECTS

WaterCheck | Python, PyTorch, Next.js, TypeScript, AWS | **Calhacks**

- Trained anomaly detection model in **PyTorch**, achieving **90% accuracy** on meter data during demo.
- Prototyped scalable data pipeline using **AWS Lambda + PostgreSQL**, enabling near real-time analytics.
- Automated meter tracking with AI **OpenCV** classification, cutting manual monitoring effort.

HeyHoo | Next.js, WebRTC, Hugging Face, Python, OpenCV, FastAPI, Redis, TypeScript | **HooHacks**

- Created vision assistant for visually impaired using **Next.js/WebRTC**, processing live feeds sub-second.
- Achieved **300ms latency** in speech-to-text with **Hugging Face**, enabling seamless interaction.
- Scaled AI object detection + audio feedback via **FastAPI/Redis**, supporting real-time navigation.

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

- Built LLM-powered scheduler integrating **Google Calendar API**, coordinating **100+ concurrent study plans**.
- Designed dynamic React/Tailwind dashboard with real-time drag-and-drop task management.
- Containerized system with **Docker**, accelerating deployments and collaborative development.

TECHNICAL SKILLS

Languages/Frameworks: Python, TypeScript, C++, C#, React.js, Node.js, Express.js, NextJS, Tailwind CSS

Tools: Git, Docker, Postman, Vercel, Linux, AWS, GCP, Azure, Heroku, CI/CD

Databases/Infra: MongoDB, MySQL, PostgreSQL, Redis, Cloud SQL, WebSocket, REST, GraphQL

ML/AI: OpenAI, Langchain, Hugging Face, OpenCV, NLP

Testing: Cypress, Playwright, Jest, Postman, Selenium