

Anirudh Sridhar

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mixtapeo.github.io/website/

EDUCATION

Carleton University

Bachelor of Systems and Computer Engineering (Co-Op), Third-year.

Ottawa, ON

September 2023 - Present

Enid Redman Scholarship

September 2023

Manimiran Kanagasabapathy Memorial Bursary

January 2025

TECHNICAL SKILLS

Languages: Python, C / C++, Java, SQL (mySQL), JavaScript, HTML/CSS, R, Kotlin.

Frameworks: React, Node.js, Flask, Flutter, Gunicorn, nginx , Vue.js.

Developer Tools: Git, Docker, AWS, REST APIs, Unity / Unreal Engine, Windows Driver Kit.

Spoken languages: English, Hindi, Tamil, Japanese (JLPT N4).

AVAILABILITY

Available for 8 months beginning January 2026.

EXPERIENCE

Software Engineering Intern

March 2025 – Present

Infras

Remote, USA

- Maintained a Playwright and Jenkins test automation framework supporting multiple client environments. Modified tooling and architecture to dramatically decrease repetitive work.
- Developed a fully-autonomous end-to-end depth first search based tool, that discovers and navigates different input fields across multiple pages (10+), eliminating need for manual testing and enabled on-demand testing for other developers.

Global Head of IT

June 2025 – Present

SynFiny Advisors

Remote, USA

- Oversaw IT security and infrastructure for a small-to-medium business (SMB), ensuring system integrity and business continuity.
- Utilized Microsoft Entra Admin Center to manage identity and access; implemented cost-saving measures by optimizing Office 365 licensing. Coordinated internal phishing and social networking attacks to strengthen employee awareness. Conducted market research and lead IT security related decisions.
- Provided day-to-day IT support and resolved technical issues across systems and teams.

Engineering Intern

July 2024 – September 2024

SynFiny Advisors

Remote, USA

- Designed, developed, and deployed an AI-powered chatbot, **ResumeGPT**, that processes and summarizes resumes, enabling free conversation with context history. Assisted in shaping the company's AI strategy by recommending candidates for jobs based on skill sets.
- Integrated **WildApricot API** to extract internal CSV data, enabling automated resume retrieval and processing. Interacted with **OpenAI API** for batch summaries and chat completions.
- Deployed the solution on an **AWS EC2 Ubuntu** instance, utilizing a **Python Flask** web server managed by **Gunicorn** and **Nginx**. Automated maintenance tasks with cron jobs for optimal performance.
- Maintained the codebase on GitHub, contributed roadmaps for development cycles, and explained implementations to stakeholders. The project is available at <https://github.com/mixtapeo/ResumeGPT>.

Technical Specialist

June 2024 – June 2025

Mobile Klinik

Merivale, Ottawa, ON

- Samsung & Apple Certified Repair Technician., WISE Specialist Level 1 for Smartphones and Tablets.
- Repaired tablets, phones, laptops, computers and gaming consoles. Managed tickets & customers.

PROJECTS

Capital Technology Networks VP Software	June 2025 - Present
<ul style="list-style-type: none">Developed an in-house automated photo booth solution with emailing capabilities.Led the 2025 UI refresh for Track the Hack and reworked critical workflows (registration, admission and scheduling) to reduce friction and increase clarity for attendees and organizers.Worked with many teams to create a 2025 website for HackTheHill III among many other things.	
Volunteer Research Assistant – Data Augmentation	February 2025 – Present
<i>Carleton University</i>	
<ul style="list-style-type: none">Boosted YOLOv8-nano accuracy to 99.8% top-5 on CIFAR-10 with 99.2% validity by implementing customized Fast AutoAugment policies.Co-developing a technical whitepaper documenting: (1) optimized augmentation strategies for production, (2) validity testing framework, and (3) cost-benefit analysis of automated augmentation.	
Volunteer Research Assistant – Peptide Engineering	February 2025 – May 2025
<i>Carleton University</i>	
<ul style="list-style-type: none">Implemented "PepInvent", a deep learning framework for <i>de novo</i> peptide design, by setting up and customizing the original research codebase for project-specific needs.Presented key findings from the foundational research paper to professors, clarifying technical concepts and guiding discussions on its applications.Code available at: https://github.com/mixtapeo/PepInvent-Modified.	
HackTheHill II: Closet Companion Participant	September 2024
<ul style="list-style-type: none">Developed project requirements, created a roadmap + UML, designed and implemented the back-end, guided teammates on front-end development, and ensured seamless integration to deliver a cohesive and functional program which was presented to judges all within 48 hours.Designed a browser extension that alerts users on shopping websites if a similar item already exists in their wardrobe, while allowing users to add and display wardrobe items on a dedicated page.Developed a custom text recognition model in Python, tagged items using mySQL, wrote a Firefox browser extension (HTML + JS), and a flask server that hosted the app. Implemented the user interface using ReactJS and TailwindCSS.Submission available at: https://devpost.com/software/closet-companion-uym93k.	
Quanser ACC 2025 Self-Driving Competition Participant	June 2025 – July 2025
<ul style="list-style-type: none">Part of a team competing in Quanser's ACC 2025 Self-Driving Competition, in Stage 2 .Co-developed navigation algorithms, ROS nodes, lane detection and discipline, along with image processing algorithms.	
Other Projects GitHub: github.com/mixtapeo	
<ul style="list-style-type: none">Built a wide range of software and hardware projects, including an 8-bit CPU in Logisim, an STM32-based RGB LED controller, a C++ raytracer for rendering simple 3D scenes, and a basic Windows driver for a USB toy handbrake. Additional work includes a text-based Facebook clone in C, LyriSync — a Python GUI application that synchronizes Spotify song playback with real-time lyric translation using multi-threaded API calls, and PhoneForward — a Firefox extension and Android app for seamless phone number forwarding.	

CERTIFICATIONS

Course	Institution	Year
Machine Learning Specialization	Stanford University & DeepLearning.AI	2024
Grade 7 Western Classical Keyboard	Trinity College, London	2022
Black Belt	World Taekwondo Federation	2022
Dexterity School of Entrepreneurship	The Dexterity Global Group, US	2022