Anirudh Sridhar

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mixtapeo.github.io/website/

EDUCATION

Carleton University   Ottawa, ON

Bachelor of Systems and Computer Engineering (Co-Op), Third-year.   *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
- 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
Carleton University
- 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
Carleton University
- Implemented "PepInvent", a deep learning framework for *de novo* 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
- 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
- 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
- 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