Aaryan Biradar

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EDUCATION

Carleton University (Co-op) — Expected May 2027
*B.Sc. **Computer Science** (AI & ML Stream), Minor in **Statistics*** — *Scholarships: $17,500 | GPA: 4.0*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL
AI/ML Frameworks: Scikit-Learn, PyTorch, OpenCV, Pandas, NumPy, Matplotlib
Tools/DevOps: Git, Docker, Jenkins (CI/CD), Jira, MLOps Fundamentals

EXPERIENCE

Software Engineer Intern — May 2025 – Present
Ciena — *Ottawa, ON*

- Evaluated **LLM code generation** metrics and presented findings to **VP-leadership** to guide AI roadmaps.
- Engineered a **multi-threaded Python tool** to identify **5,000+ dead functions** in large-scale codebases.
- Automated **Jenkins CI/CD** checks and resolved Protocol Buffer errors for stable **Agile** deployments.
- Boosted Core Library test coverage by **20%** across **50k+ lines** using automated unit test tools.

SOFTWARE PROJECTS

Real-Time Behavioral AI Platform ↗ | *UofT Hacks 13* — *Next.js, GPT-4o, Amplitude*

- Built an **inference engine for asynchronous event sequences** to profile anonymous behavioral archetypes.
- Enabled real-time personalization without requiring historical data or mandatory user logins.
- Developed an **AI agent** to reason over live behavioral signals and detect user hesitation patterns.
- Triggered dynamic UI optimizations based on real-time signals to improve e-commerce conversion.
- Architected an **event-driven system** transforming raw interaction data into actionable real-time insights.

AI-Driven Productivity Monitor | *CUHacking* — *Python, OpenCV, Scikit-Learn*

- Designed a real-time CV system using facial landmark analysis to monitor focus levels with **OpenCV**.
- Implemented automated error analysis to optimize detection accuracy across varying lighting and orientations.
- Optimized background processing pipelines for low CPU overhead and efficient **AI** deployment.

Academic Connection Platform | — *React, TypeScript, Firebase*

- Developed a full-stack tutoring marketplace using **React and Firebase** for verified student discovery.
- Implemented a multi-role dashboard and **Calendly-style availability editor** with real-time management.
- Designed a tutor discovery module with **advanced filtering** and administrative approval workflows.

LEADERSHIP

Recognized Study Group Lead — Sept 2025 – Present
Science Student Success Centre — *Ottawa, ON*

- Orchestrated weekly technical reviews for **15+ peers** in **Data Structures, Algorithms, and Statistics**.
- Achieved **20% higher peer grades** through structured whiteboard sessions and collaborative problem-solving.
- Mastered complex logic and algorithmic foundations while mentoring students on technical coursework.

Founding Technical Instructor — Jan 2024 – Jun 2024
Dovercourt Recreation Centre (Non-Profit) — *Ottawa, ON*

- Designed a **20-week Python curriculum** covering **Recursion** and **Big-O notation** for 25+ youth students.
- Founded and launched a youth coding program to provide accessible technical education within the community.
- Mentored **25+ students** in computational thinking and foundational programming through hands-on Python labs.