David Kusimo

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Education

Carleton University Expected Graduation Date: 2029

Bachelor of Computer Science Honours (B.C.S) - AI and Machine Learning Stream *Ottawa, ON*

GPA: 10.42/12.0 | Available for 8 months beginning May 2026

Awards: Carleton President's Scholarship

Technical Skills

Languages: Java, Python, C, JavaScript, TypeScript, HTML/CSS, SQL
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Linux, Docker
Libraries/Frameworks: React, Node.JS, Pygame, Next.JS

Experience

API Integration Developer | *PostgresSQL, Docker, JavaScript, Neon, Auth0* Aug 2025 – Sep 2025

Game of Streaks – My Picks *Toronto, ON*

- Processed real-time sports by integrating a high-performance sports API and Autho based authentication, achieving a **40%** increase in speed and enabling secure concurrent data operations for **300+** users
- Reduced live score latency to under **3 minutes** through efficient API fetching and PostgreSQL database optimization, managing data from **30+** sports competitions
- Resolved international time zone discrepancies for global events, enhancing data accuracy and improving application performance by **25%**
- Monitored and analyzed web traffic from **3500+** visitors across **33+** countries and **6** operating systems, identifying top referrers from over **20,000** page views to inform growth strategies

Full-Stack Software Engineer | *Next.JS, TypeScript, Python, Java, Vercel, Git, Firebase* May 2025 – Jul 2025

Game of Streaks *Toronto, ON*

- Developed a live sports prediction platform using **Next.JS**, **TypeScript** and **Firestore DB**, aimed at promoting responsible play and reducing gambling risks across Canada
- Collaborated across frontend, backend and mobile functional teams to maintain a clean and organized development workflow, achieving a **30%** increase in deployment efficiency using **Python**, **Java** and **Vercel**
- Implemented cloud-based infrastructure using **Google Cloud Platform** and **GitHub Actions**, ensuring high performance application delivery and resolving **5** CI/CD pipeline bugs

Computer Vision Developer | *Python, OpenCV, TensorFlow, MediaPipe* Nov 2024 – Nov 2024

CU Hacking – Computer Vision *Ottawa, ON*

- Conceptualized and developed an interactive dance-based game utilizing **computer vision** algorithms to promote engaging indoor workouts for a better fitness experience
- Programmed a monitoring system to track **32** key body landmarks in real time, surpassing mobile solutions using **8-12** points
- Integrated a **MediaPipe** Pose module to boast an accuracy rate of over **95%** for body landmark detection

Full-Stack Developer | *JavaScript, CSS, HTML, React, Vite, Node.js, Git* Oct 2024 – Oct 2024

Nasa Space Apps *Ottawa, ON*

- Established a program using **ARCGIS** to analyze the effects of flooding in Canada and the consequences over time, resulting in a **25%** improvement in data accuracy and geographical insights
- Constructed a responsive website featuring **3 tabbed pages**, incorporating images and a user-friendly design
- Achieved a **certificate** of outstanding participation and efforts to address challenges faced in Earth and in space

AI Developer | *JavaScript, JavaScript XML, CSS, HTML, React, Vite, Spotify API, Wit.ai* Sept 2024 – Oct 2024

Hack the Hill *Ottawa, ON*

- Designed an innovative web application using **React** to assist users, taking all their favourite comfort activities to one platform
- Engineered and trained **Wit.ai** model with **33** diverse utterances to enhance natural language understanding and user interaction accuracy by **80%**
- Integrated **Spotify API** into application to enable seamless music retrieval and improve user functionality

Extra-Curricular Activities

Software Team Representative Nov 2024 – Apr 2025

Carleton Planetary Robotics Team *Ottawa, ON*

- Assembled and tested **LED circuits**, achieving a **25%** improvement in feedback clarity and enhancing lighting patterns for system indicators
- Performed **debugging** and **optimization** across diverse software systems to enhance performance and reliability
- Collaborated with Mechanical and Electrical team members to implement firmware updates and troubleshoot system-level issues