

# JASON WEI

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## EDUCATION

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### Computer Science Specialization, Bachelor of Computing Honours, AI Option

Queen's University: 4.20/4.3 GPA

Kingston, ON

Expected May 2026

## LEADERSHIP EXPERIENCE

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### Perception Director

GM-SAE Queen's AutoDrive

Kingston, ON

March 2024 – Present

- Leading a team of 30 undergraduates & 3 graduate research assistants in implementing 3D LiDAR object detection, sensor fusion, and calibration, to enhance system reliability and robustness
- Placed 3<sup>rd</sup> place in the intersection challenge by successfully integrating & deploying our perception systems
- Achieved a 112% increase in camera-based object detection speed using Python by assisting in optimising the detection pipeline, refining algorithms, and eliminating performance bottlenecks
- Managing 80k+ annotated image datasets in Roboflow to train YOLOv8 models for detection accuracy
- Coordinating the planning and execution of modular projects, while establishing clear timelines and appointing sub-teams for effective delivery

## WORK EXPERIENCE

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### Teaching Assistant

Computer Architecture – CISC 221

Kingston, ON

September 2024 – Present

- Conducting in-person office hours to provide 1-on-1 guidance and clarification regarding the course material, assignments, and marked evaluations, resulting in better student comprehension
- Explaining core concepts such as machine representation, assembly, digital logic, and memory architecture

### Full Stack Development Intern

Department of National Defence – DDACSI

Ottawa, ON

May 2024 – August 2024

- Architected MongoDB schemas and developed data manipulation services, seamlessly integrating front-end with back-end using Apollo GraphQL, while testing and validating with Jest
- Delivered a 43% reduction in component code by refactoring legacy JavaScript to TypeScript, eliminating redundant code, and enhancing reusability, leading to a more scalable and maintainable codebase
- Achieved a 20% increase in total app users by implementing and designing interactive React components and leveraging Cypress end-to-end (E2E) testing to ensure robust functionality
- Resolved 116 tickets by utilising Azure DevOps and Git for effective source control management

### Software Development Intern

Department of National Defence – CADTC

Kingston, ON

November 2023 – April 2024

- Reduced manual workload by 90% through the development and implementation of PowerShell scripts to streamline and automate the generation of essential files in an MVC architecture
- Leveraged C#, Bootstrap, and ASP.NET Core to develop internal web applications using Razor Pages

### Web Project Lead Intern

Canadian Private Copying Collective (CPCC)

Remote / Toronto, ON

August 2023 – October 2023

- Led the migration of ~80k words from the client's webpage, revitalising UI/UX & ensuring content integrity

### Web Development & Design Intern

ventureLAB

Remote / Markham, ON

June 2023 – August 2023

- Achieved a 101% increase in event count and 70.2% growth in users through developing client web pages
- Drove website growth to a record 27000 monthly users through SEO enhancements and optimizations