

Tara Denaud Joseph

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EDUCATION

University of Ottawa | Ottawa, Ontario

Honours BSc in Computer Science • GPA = 7.25/10 (~3.4/4.0)

Expected Graduation: May 2026

- **Awards & Scholarship:** Dean's List (Summer 2025 Term), UOSU Welcome Week: Executive Award
- **Community Involvement:** CUSEC Director of Speakers (2024-2025), uOttawaHack 7 Marketing Coordinator (2024-2025).
- **Relevant Courses Taken:** Data Structures and Algorithms, Analysis and Design User Interfaces, Databases I, Software Requirements Analysis, Data Communications and Networking, WWW Structures Techniques and Standards

WORK EXPERIENCE

Software Developer | GCSurplus, Public Services and Procurement Canada

June 2024 – December 2024

- Enhanced key application modules using **JavaScript**, improving platform responsiveness and delivering a smoother experience for hundreds of daily users.
- Designed and optimized **SQL** databases and architecture, improving data integrity, scalability, and response times for large-volume government datasets.
- Drove quality assurance and release readiness for multiple deployments, collaborating with cross-functional teams to deliver secure, reliable, and user-centered digital services.

VP Communications & VP Social Affairs | Computer Science Student Association, University of Ottawa

April 2024 – Present

- Managed marketing and communications for the CS student body (**1,200+ students**), producing monthly newsletters and coordinating association-wide communication and content strategy.
- Recruited and supervised two junior executives, providing direction on communications strategy and event promotion.
- Organized Welcome Week for incoming students, overseeing event logistics, volunteer coordination, and merchandise **operations totaling \$10K+**. Received the **UOSU Executive Award** for outstanding leadership and community impact.
- Planned an out-of-province student trip for **87 attendees**, managing ticketing, travel logistics, partner coordination, and overall execution.

PROJECTS

Reinforcement Learning Research | Machine Learning Honours Project (uOttawa)

- Built a full **SAC training/evaluation** framework (**Gymnasium + PyTorch**) and executed 90-job hyperparameter sweeps on a compute cluster, analyzing task variance and pre-layer initialization across **AntMaze**, **Hopper-v4**, and **Walker2d-v4**.

Personal Website | React Website

- Built a responsive **React.js** portfolio using **GSAP**, **@react-three/fiber**, **JavaScript**, **HTML**, and **CSS**, with scroll-triggered animations and 3D components optimized for cross-device accessibility.

WanderLens Photography Service Platform | Full-Stack Web Application

- Developed a bilingual **React.js** platform (EN/FR) with custom UI components and image-search features, optimized **JavaScript**, **HTML**, and **CSS** for faster load performance, improved **SEO**, and enhanced mobile responsiveness.

Software Soft Hair | Web Application

- Engineered a responsive beauty-salon website with **HTML**, **CSS**, **JavaScript**, and **Bootstrap**, integrating a dynamic carousel and booking modal while improving accessibility and reducing UI friction on mobile and desktop.

Simulated Hotel Database | Full-Stack Web Application

- Built a hotel booking system using **SQL**, **JavaScript**, **HTML**, and **CSS**, creating a searchable reservation interface with filters that improved **query efficiency** and streamlined user navigation.

Good Cycle | Android Application

- Engineered the cycling app with **Android Studio**, **Java**, and **Firebase**, with **multi-role functionality**, catering to admins, club owners, and participants, to provide tailored user experiences and streamline cycling event management.

TECHNICAL SKILLS

Programming Languages: C#, ColdFusion, CSS, HTML, Java, JavaScript, JSON, Python, SQL, TypeScript

Frameworks/Libraries: React.js, React Native, AngularJS, Bootstrap, Three.js, GSAP

Tools: Git, GitHub, Blender 3D, Figma, Google Firebase, Jira, Microsoft Office, SolidWorks

Cloud / DevOps: AWS, Docker, RESTful APIs, Kubernetes, CI/CD pipelines

Accessibility: Web Content Accessibility Guidelines (WCAG)