

Jane Yao

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PROFESSIONAL EXPERIENCE

UCARLETON ENGINEERING OUTREACH PROGRAM, Ottawa, ON

Mentor, January 2020 - Present

- Collaborated with 5-7 UCarleton engineering students and volunteers to organize and deliver UCarleton's quarterly Go Code/Eng Girl program of 30+ participants, aimed to enrich the programming experience of grade 6-12 girls
- Taught 30+ grade 6-12 girls how to animate using JavaScript in a programming workshop catered to Basic-intermediate programmers. Used JavaScript functions, loops, lists, and arrays

NOKIA INTERNSHIP, Ottawa, ON

Intern, July 2019 – Aug 2019

- Updated, tested, and debugged Nokia's NetGuard Adaptive Security Operations software designed to integrate corporate management systems to improve security administration processes
- Prepared 15-page documentation of product testing results: client server connection issues, GUI issues, and bugs
- Analyzed logs to find and fixed bugs. Ensured updates and debugged elements were consistent in product's GUI
- Leveraged knowledge in command line, bash scripting, familiarity with Linux interfaces. Learned database navigation (Oracle, MOA), running tests with Kubernetes architecture and on virtual machines

OTTAWA YOUTH ENGAGEMENT COMMITTEE, Ottawa, ON

Senior member, Sept. 2017– Present

- Developed and implemented 3 major social initiatives (Councilors in Civics Classes project, Mayor for a Day, the Youth Unemployment Survey) catered to Ottawa youth, 15-21, to increase youth engagement in municipal affairs
- Collaborated, negotiated, and wrote letters to dozens of City Councilors, city departments, local NGOs, and teachers to successfully integrate youth programs/services in high schools and the greater community—reaching an engagement of 90+ youth in our programs
- Conducted research on effective communication methods with marginalized youth (visible minorities, low-income, etc.) that resulted in better delivery and implementation of youth programs

EDUCATION

UNIVERSITY OF WATERLOO

Bachelor of Computer Science, Honours with Co-op September 2020 – June 2025

SOFTWARE/HARDWARE PROJECTS

PERSONAL PHOTOGRAPHY WEBSITE

- Leveraged knowledge in JavaScript, Full Stack web development, JS libraries (ex. ScrollMagic), and UI/UX design
- Designed mock-ups of transitions, experimented with colour palettes, font/colour/image combinations, and animations for all webpages designed to allow users to effortlessly navigate the interface.

VEHICLE FLOATATION DEVICE PROTOTYPE (SHAD Program Design Project)

- Developed a prototype of a floatation device designed to mitigate flood impacts on vehicles. Improved product by designing mock-ups that enhanced functionality while maintaining simplicity. Reduced proposed costs by ~11%.
- Enhanced the airbag deployment system design to be compatible as a floatation device for vehicles, which is easily manually activated. Helped create simulation video demonstrating the product's deployment mechanism

WEARABLE SAFE CYCLING DEVICE

- Created a device with a range of different light patterns using Arduino Software and Autodesk Tinkercad designed to easily attach to clothing to mitigate car accidents with cyclists and runners at night

SKILLS

- Software: (Proficient): JavaScript, Python, Racket, HTML/CSS, (Familiar): Ruby, Linux/Unix
- Proficient in Office 365 tools (Word, Excel, Teams, PowerPoint, Outlook)
- Languages: English, Chinese (Mandarin), and French (DEL F B1 Certification)