

Angela Skie Xu

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Technical Skills

Languages: Java, C++, C, Python, Racket, JavaScript, Typescript, SQL, LaTeX, HTML/CSS, YAML, Markdown, Bash, Kotlin

Frameworks: React, Vue, TailwindCSS, Bootstrap, Bulma, OpenCV, IPFS, Flask, Node.js, Next.js, Firebase, JPA, gRPC

Developer Tools: Docker, Gradle, Maven, DBeaver, Springboot, Postman, Kafka, Redis, AWS, JMeter, Git, Linux, IntelliJ

Experience

Junior Developer

May 2023 - Aug. 2023

iBlüm Learning Company

Toronto, ON

- Created and deployed [Terms of Service](#) and [Privacy Policy](#) pages at iBlüm and [WEM](#)
- Resolved 1000+ technical debt issues and 300+ bugs on **SonarQube**, resulting in 15% increased productivity
- Found and reported 50+ data fixes on **DBeaver** database using **SQL** queries
- Quickly assimilated into iBlüm's system architecture, contributing to the reduction of technical debt from day one.
- Employed UAT and Unit Testing methodologies to ensure the reliability and accuracy of newly developed functions.
- Crafted responsive HTML templates leveraging **Thymeleaf**, and streamlined the PDF conversion process using **Athena**.
- Conducted in-depth research into **Stripe's** API for Payment Intents, utilizing **Postman** collections for effective integration

Google Scholar

July 2022 - Aug. 2022

Google Computer Science Summer Institute

- Configured **10+ individual coding projects** in HTML/CSS and JavaScript
- Delivered a [final project](#) presentation that included a live demonstration to **Google employees**

Web Developer

Jan. 2023 – May 2023

UW Mathematics Society | Pug, Express.js, SCSS

- Rebuilt and monitored the Math Soc website with new features and better user experience.

Photography Team Lead

Sep. 2023 – Present

UW Computer Science Club

- Captured and edited high-quality photographs at events, ensuring consistency in style for club materials.
- Managed the club's photography equipment inventory, including maintenance of cameras, lens, and softbox.

Projects

[Heckler.AI - Hack the Valley 8 First Place](#) | Python, OpenCV, Taipy

Oct. 2023

- Leveraged OpenCV, Google's MediaPipe framework, and a **websocket** to transmit real-time data analysis to the frontend
- Trained ML model using own data collected and several Classification Models to achieve **95%+** accuracy in **36 hours**.
- Created a **custom GUI component** in Taipy to implement webcam functionality in the absence of a pre-built library.

[VisionCraft.ai - Hack the 6ix Submission](#) | Next.js, TailwindCSS, Google Cloud, OpenAI, IPFS, Yolo v3, PyPDF2

Aug. 2023

- Crafted an interactive front-end using React, facilitating seamless navigation and **responsive design** across screens
- Spearheaded the development of key features, including the integration of a **dynamic PDF guide generation** system that leverages **IPFS** for secure and efficient delivery to users.

[Claude Watson Event Registry](#) | C++

Mar. – May 2022

- Created a Database simulation using advanced C++ classes inheritance techniques complete with input validation
- [Documentation](#) covers the **program architecture**, **traceability matrix**, and **system interface design**

Education

University of Waterloo, Bachelor of Computer Science

Waterloo, ON

Pursuing specialization in AI and minor in Computational Mathematics

4.0 GPA, Sep. 2022 - Present

Honors and Awards

Scholarships

\$10,000 Scotiabank Women in CS Scholarship, \$5,000 Admanski Scholarship, \$10,000 UofT Dean's Merit Award

Honors and Awards

Hack the Valley 8 First Place, Ignition Hacks Winner, Euclid and Fryer School Champion, Math and Chemistry Graduation Awards

Certifications

CPA Programming Essentials in C++, Cisco Introduction to IoT, Certified L2L Tutor, ARCT Piano Performance