

Yolanda Huang

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TECHNICAL SKILLS:

Languages: Javascript, C/C++, C#, Python, Scala, SQL, Typescript, HTML/CSS

Tools / Frameworks: React, Three.js, Node.js, Express, Tailwind CSS, Unity, MongoDB, Git, OpenCV, Figma

EXPERIENCES:

GH Capital Corporation

May - Aug 2023

Software Developer

North York, ON

- Expanded the ERent tenant portal using Python and MySQL to allow easy access to package delivery information across a 800+ tenant community
- Updated the corporate website with React and Chakura UI visually hidden to meet AODA compliance
- Utilized Three.js to load 3D housing models and Tailwind to ensure responsive mobile design

UW Orbital Design Team

Sep 2022 - May 2023

Full Stack Developer

Waterloo, ON

- Member of the Comms subteam, in charge of responsive ARO web app and map API development, successfully decreasing development time by constructing reusable React components
- Integrated backend with FirebaseDB and Cloud Functions to ensure data security
- Involved in the Mission Control Centre with C++ in firmware, signal and sensor related tasks

RESEARCH:

Social and Intelligent Robotics Research Lab (SIRRL)

Sep 2023 - Present

Undergraduate Research Assistant

Waterloo, ON

- Developing the Furhat Robots used for human-computer interaction experiments, exploring ROS, Kotlin and Python solutions for the robot to show a variety of expressions, personalities and speech patterns

PROJECTS:

Image Booth API | *Express.js, Javascript, CSS, HTML, MongoDB*

2023

- Lead developer of an API which stores, tags and filters images for each user with built-in masonry display
- Implemented the web server in Express.js and the database using MongoDB

Emolock | *C++, Python, OpenCV*

2022

- Designed an emotion-based safe box security system which unlocks through a preset combination of emotions
- Emotion capture is achieved through the deepface library by META and OpenCV live camera processing
- Programmed instant unlocking system using Arduino MEGA through serial communication with the laptop

UI/UX Design Portfolio | *Figma, Canva, Photoshop, Lightroom*

2022

- Created customized graphic designs for websites, applications, advertisements, logos and various medias, concisely condensed into a single portfolio

EDUCATION:

Candidate for **Bachelor of Software Engineering**, University of Waterloo, Waterloo, ON

2022 - 2027

- **GPA 3.9 / 4.0** with Cumulative Average of 90%
- Recipient of President's Scholarship, Dean's Honors and the Dr. P. S. Ahuja Award for Women in STEM