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, PostgreSQL, MongoDB, AWS, Git

EXPERIENCES:

Managemate Jan-April 2023
Web Developer *Toronto, ON*

- Introduced pagination and responsive reusable elements on the company's **SAAS** platform to decrease loading time by 35%
- Expanded the **PostgreSQL** database on **AWS** to provide custom tagging for the condo's activities and assets
- Increased user interaction by 60% with the addition of email automation and table view for documentations

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
- Product managed with external UI/UX and marketing teams to complete a e-commerce site utilizing Editor X

UW Orbital Sep 2022 - May 2023
Full Stack Developer *Waterloo, ON*

- In charge of input and mobile responsive ARO web app and map API development, successfully decreasing development time by 40% by constructing reusable React components
- Integrated backend read/write with FirebaseDB and Cloud Functions to ensure data security

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 Kotlin and Python solutions on the Furhat SDK for the robot to show a variety of expressions and speech patterns

PROJECTS:

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

EDUCATION:

Candidate for **Bachelor of Software Engineering**, University of Waterloo, Waterloo, ON 2022 - 2027

- **GPA 3.9 / 4.0** with Cumulative Average of 91%
- Recipient of President's Scholarship, Dean's Honors and the Dr. P. S. Ahuja Award for Women in STEM