

Yolanda Huang

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TECHNICAL SKILLS:

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

Frameworks: React, React Native, Redux, Three.js, Node.js, Express, Tailwind CSS, MongoDB, MySQL, Oracle, ROS

Tools: PostgreSQL, AWS, Jira, Confluence, Unity, OpenCV, Firebase, Git, Figma

EXPERIENCES:

Managemate

Jan 2024 - April 2024

Web Developer (Fullstack)

Toronto, ON

- Introduced pagination with **SQL queries** and responsive reusable elements on the company's **SAAS** platform using React and CSS styling, decreasing 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%** within 1 month following the addition of relational database table view for documentations, which supports advanced sorting, filters and Postman email automation
- Used React hooks to generate in-app success confirmation messages as requested by client feedback

GH Capital Corporation

May 2023 - 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, making information retrieval **40%** faster
- 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 (Communications Team)

Waterloo, ON

- In charge of input and mobile responsive ARO web app and map API development, successfully decreasing development time by **70%** by constructing reusable React components
- Integrated all backend reads and writes with FirebaseDB encryption and Cloud Functions to ensure data security

RESEARCH:

Social and Intelligent Robotics Research Lab (SIRRL)

Sep 2023 - Dec 2023

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:

Personal Website | React.js, Three.js, Tailwind CSS, Framer Motion

2024

- Past projects, design portfolio and personal experiences available at www.yolandahuangg.com

Emolock | C++, Python, OpenCV, Arduino MEGA

2023

- 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 3.95 / 4.0** with Cumulative Average of 91%
- Recipient of President's Scholarship, 3 times Dean's Honors and the Dr. P. S. Ahuja Award for Women in STEM