

CHIN YEE LAI

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Education

York University

Bachelor of Science (Honours) in Computer Science

September 2020 - December 2023

Toronto, Canada

INTI International College Subang

Associate in Computer Science

January 2018 - August 2020

Malaysia

Experience

Front End Developer | *yuHack York University, Toronto, Canada*

January 2023 – Present

- Built front end of a hackathon event website using **Next.js** framework, **ReactJS** and **TypeScript**.
- Utilized **Tailwind CSS**'s responsive utility class to style components, remove unused **CSS** styles and create a clean, responsive design that works across multiple screen widths.
- Leveraged lightweight **Particle.js JavaScript** library to customize animated background.
- Planned new features and components to be added and codes to be reviewed using agile project management tool, **Jira**.

Teaching Assistant | *York University, Toronto, Canada*

January 2023 – April 2023

- Contributed with the professor in preparing the academic plans for more personal and meaningful learning experiences.
- Communicated regularly with students to provide guidance for students on assignments and study materials.
- Resolved student questions or issues quickly with a helpful and empathetic approach via office hour.

Projects

Grocery List Android App | *Java, Android*

September 2023 – December 2023

- Developed a user-friendly Android app designed for storing grocery lists, with a primary focus on addressing accessibility challenges encountered by individuals with partial visual impairments.
- Developed an application tailored for the visually impaired using **Android Studio IDE** and **Java**.
- Conducted a comparative study that involved evaluating voice-to-text input and soft keyboard usage in the app. Utilized participants in timed trials, performed CPU performance analysis, and administered a usability questionnaire.

Glasses E-commerce Website | *Ruby, React, HTML, CSS, Bootstrap*

January 2023 – April 2023

- Implemented following the **MVC** architecture pattern, which facilitated for clear code separation and modularity.
- Utilized **Ruby on Rails** for server-side, enhancing speed, reliability, and employing database and web service development.
- Developed client-side with modular **React.js**, **HTML**, **CSS**, and **Bootstrap** for consistent design and user experience.
- Deployed using cloud-native technology using **Amazon Web Services (AWS)** to support security, performance, and scalability.

Compiler for Measuring the Quality of Testing | *ANTLR4, Java, HTML*

September 2022 – December 2022

- Utilized **ANTLR4** to create a parser for our custom programming and testing language. This enabled syntax analysis and structure generation.
- Built semantic analysis, execution simulation, code coverage analysis for accurate program execution and extensive testing.
- Generated **HTML** files as the output of the compiler. Leveraged libraries/packages for visualization, including graph plotting, to enhance the presentation of results.

Interactive Prototype on Event App | *Java, CSS*

January 2022 – May 2022

- Created wireframe and interactive prototype on Event App which allows students to join or create events.
- Learned the basics of User Interfaces and the importance of the Double Diamond of Design in designing the prototype.
- Designed the website using **JavaScript**, **HTML** and **CSS**.

Technical Skills

Languages: Python, Java, C, HTML5/CSS, JavaScript, SQL (MySQL), TypeScript, Ruby, C++,

Tools/Frameworks: Linux, Jenkins, Git, JUnit, WordPress, React, jQuery, TailwindCSS, Android Studio, Express.js, .NET, Django, Ruby on Rails, ANTLR, Redux, Node.js, Next.js, MongoDB, PyCryptodome, Tomcat

Operating Systems: Linux, Unix, Windows, macOS

Security Authentication Protocols: 2FA, Kerberos, NTLM

Network: OSI Model, ClearPass, TCP/IP, HTTP, HTTPS, LANs, WANs, DHCP, IPv4, IPv6

Volunteer

Peer Mentor | *York University, Toronto, Canada*

September 2022 – Present

- Offered advice on study strategies, time management, and organizational skills to improve academic performance.
- Effectively resolved student concerns and conflicts through attentive listening and clear, responsive communication.
- Demonstrated leadership skills by collaborating with university staff to develop and deliver on-campus workshops and resources.