




NICK YANG

 github.com/nkxy
 613 415 2411

 linkedin.com/in/nkxyz
 nkyang@uwaterloo.ca

EXPERIENCE

Rangle.io | Software Developer Intern

Sept. 2018 - Dec. 2018

- Designed a flexible **React** component hierarchy, enabling rapid delivery of additional unanticipated features to the client.
- Implemented permission-based authorization middleware with **Express.js**, resulting in far more robust application security.
- Set up and created **MongoDB** database migrations, significantly reducing the risk of lost user data when adding functionality.
- Developed responsive components, data exporting, and alerts for an enhanced user experience.

Blueprint | Project Developer

May 2018 - Dec. 2018

- Developed RESTful endpoints and an user interface using **Flask**, **React**, and **Redux** to allow storage, retrieval, and displaying of user data from a **PostgreSQL** database.
- Refactored the transaction user interface to utilize **React** higher-order components, resulting in increased maintainability and scalability.
- Set up deployment using **Gunicorn** and **nginx**, to allow for user testing in India.

Blueprint | Project Manager

Sept. 2018 - Dec. 2018

- Lead the shift to **agile** software development practices, resulting in increased project velocity and delivery of essential features to the client.
- Coordinated development with 6 developers and designers, writing epics, stories, and tasks to provide clear context and direction.
- Interfaced with client to understand essential features and requirements, leading to a high-value end product.

PROJECTS

Family Law Costs

- Launched a website with the Law and Design Co-Lab, to form a narrative around the hidden legal costs of family law disputes in Canada.
- Developed selector logic in **React**, to calculate different types of legal costs based on user inputs.

3D Audio Visualization

- Analyzed user audio input using the **Web Audio API**, and transformed frequency information into RGB values.
- Displayed the RGB values on a polyhedral, using the **Three.js** graphics library and **Vue**.

Secret Santa

- Created a **SQLite** database that allows users to create and store secret Santa groups.
- Retrieves a given user's secret Santa and wish list from random pairings, using **Python**.

TECHNICAL SKILLS

JavaScript / TypeScript
React / Redux
HTML / CSS
Node.js / Express.js
MongoDB / Mongoose
SQL / Python / C / C++
Git / Bash

EDUCATION

University of Waterloo

Present - Aug. 2022

Candidate for Bachelors in
Computer Science

Major GPA: 88%

OTHER ACTIVITIES

President - Blueprint

Podcast Lead - Engineers
Without Borders

Founder - Nurturing
Community Foundation

AWARDS

Loran Scholars Finalist

One of 70 out of 5,023
nationwide selected for
outstanding character,
service, and leadership.

Queen Elizabeth II Golden Jubilee Medal

One of 8 students chosen
in Alberta for exceptional
leadership.

Alberta Debate Provincials 2017

2nd out of ~100 teams.