DAVID CHAN

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Education

Ryerson University   **Sep. 2019 – Dec. 2023**
Bachelor of Science in Computer Science   *Toronto, Ontario, Canada*

Relevant Coursework

- Data Structures
- Software Engineering
- Algorithms Analysis
- Database Systems
- Artificial Intelligence
- Algebra
- Computer Architecture
- Computer Networks

Experience

Webmoti   **May 2021 – April 2021**
Undergraduate Research Assistant   *Ryerson University*

- Designed an accessible UI to create an enhanced learning environment for neurodiverse children using Figma with peers.
- Utilized React.js to create reusable components for the UI and Redux.js to manage and centralize application state.
- Enhanced visual experience using Chakra UI by providing responsiveness and accessibility while keeping simplicity.
- Learned software principles such as proper version control using Github and tracking progress by using a Kanban board.

Home Renovation   **June 2016 – Ongoing**
General Contractor   *Toronto, Ontario*

- Learned renovation practices such as installing drywall, tiling, painting, and floor boarding to handle an assigned job.
- Worked together as a team with co-workers and acted as a translator to communicate the needs of clients to co-workers.

Projects

Dance Club Recreation App | *React, React Router, CSS, Chakra UI, FireBase, FireStore*   **Github**

- Created functions to login, logout, reset password, and register users into the database using Firebase Authentication.
- Implemented dashboards to selectively display information, send messages, and remove members based on user level.
- Performed compound queries in Cloud Firestore to retrieve documents based on specific parameters from a collection.
- Designed functionality to book sessions, display session types, move unpaid to paid upon paying, and paid to attended.

Full Stack Image Board | *React, CSS, Express, MongoDB, Heroku, Netlify*   **Github**

- Designed message models, controllers, and routes for RESTful API and MongoDB server to handle HTTPS requests.
- Set up MongoDB server to receive data and establised a connection between RESTful API and server using middleware.
- Created components to properly display message form and messages using React.js and designed a responsive website.
- Deployed back end API on Heroku to access MongoDB, and front end on Netlify which ran a prod build from Github.

E-commerce Flower Shop | *React, React Router, Material-UI, Commerce.js, Stripe.js, CSS*   **Github**

- Designed functions for Commerce.js and Stripe API to communicate through implementation of various npm packages.
- Created routes and rendered components to display correct pages when processing home page, cart, and payment form.
- Expressed intermediate knowledge and concepts such passing props, async functions, object destructuring, and hooks.
- Deployed a responsive front end using the Material-UI framework on Netlify which ran a production build from Github.

Technical Skills

Languages: Javascript, Python, SQL, HTML5, CSS, Java, C, C++, Bash, Common Lisp, LaTeX, Bootstrap
Technical: Next, React, Angular, Node, Redux, Chakra UI, Tailwind CSS, Firebase, MongoDB, Axios, Git
Interests: Full Stack Development, UI Design, Machine Learning, Competitive Programming

Certifications

freeCodeCamp

- Responsive Web Design
- Algorithms and Data Structures
- Information Security
- Front End Development
- Back End Development and APIs
- Relational Databases
- Scientific Computing with Python
- Data Analysis with Python
- Machine Learning with Python

Extracurricular

Ryerson Competitive Programming   **September 2019 – Present**
Member   *Ryerson University*

- Grasped data structures such as arrays, hash maps, and binary trees to understand and produce efficient algorithms.
- Implemented different algorithms to solve complex coding problems which improved coding and critical thinking skills.