

ZHONGCHI LI

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EXPERIENCE

Web Developer — Environment and Climate Change Canada JAN 2021 - APR 2021

Refactored data aggregation process to parse climate variables, resulting in improved server-side security and reduced client memory usage by 30%

Automated report generation using **NumPy** and **Pandas** to aggregate web traffic data, saving 10+ hours of manual analysis weekly

Lead Designer — Joya Travel & Lifestyle MAY 2020 - AUG 2020

Coordinated with managers, designers, and developers to establish effective branding guidelines through reviews and design critiques

Led the development of 8 website and app prototypes on **Figma** and **Framer**, informed by 5+ user interviews to better understand product pain points

PROJECTS

Chatter — Real-time chat application

Designed and developed a **React** chat application with 19 **Functional Components**, powered by Chat Engine and deployed using Vercel

Kept page content up to date by using **State Hooks**, **Effect Hooks**, and 3 **Custom Hooks** while sharing values between components using **Context**

Implemented user authentication and user data storage using **Firebase**

Paperboy — Summarized news website

Designed and built a fully responsive and accessible frontend using **Node**, **Express**, **EJS Templating Engine**, **Axios**, and **Bootstrap**

Discussed endpoint organization with back-end developer to optimize user experience for features such as search and article generation

Implemented toggleable side menu bar, horizontal infinite scrolling, and caching of user scroll positions using **jQuery** and **JavaScript**

Aided project deployment by containerizing frontend using **Docker**

Campsters — Customer reviews site for campgrounds

Developed a web app with RESTful APIs to perform CRUD functionalities for campground data using **Node**, **Express**, **MongoDB**, and **EJS**

Utilized third-party APIs such as Unsplash, Mapbox, and Cloudinary for fetching related images, map interface, and cloud storage

Implemented user authentication, authorization using Passport.js and Helmet.js

Hack the North Frontend Challenge — Online events page

Built a responsive website to display events for both authorized hackers and the general public using **Node**, **Express**, **MongoDB**, **Express-session**, and **EJS**

Personal Portfolio Website

Built a responsive static site using **HTML**, **CSS**, and **JavaScript** to showcase my personal projects and interests, hosted by GitHub Pages

SKILLS

Technologies	Languages	Design
React	C++	Figma
Node	JavaScript	Framer
Express	Python	Photoshop
jQuery	HTML/CSS	Wix
MongoDB		
Docker		
Git		
Linux		
Jupyter		

EDUCATION

University of Waterloo **Bachelor of Computer Science** SEP 2019 - APR 2024

Relevant Courses:

User Interface, Algorithms, Numerical Computation, Operating Systems, Object-Oriented Software Development

CERTIFICATIONS

Learn React Course Certificate
codecademy

The Web Developer Bootcamp 2021
Udemy

Responsive Web Design
freeCodeCamp

JavaScript Algorithms and Data Structures
freeCodeCamp

Scientific Computing with Python
freeCodeCamp

INTERESTS

Drawing, cooking, fashion designing, building
Gundam plastic model kits