

# BRANDEN PHAN

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## Technical Skills

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**Languages:** JavaScript, TypeScript, C, HTML, CSS, Python, Java

**Databases:** MySQL, Mongoose ODM/MongoDB, Firebase

**Tools:** Node JS, GraphQL, Docker, JQuery/Ajax, XML, Git/GitFlow, Heroku, Netlify, Gradle, JUnit, Figma

**Frameworks:** React JS, Gatsby JS, Next JS, Express JS, Mocha JS

**Systems:** Windows, Mac OSX, Debian 10 Linux

## Education

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### University of Guelph

2019 – 2023

*Bachelor of Computing in Computer Science, Minor in Business*

*Guelph, ON*

- \$3,000 University Entrance Scholarship
- Dean's Honours List (4.0 GPA)

## Experience

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### Guelph Dental (Free-Lance)

May 2022 – June 2022

*Full-stack Developer*

*Guelph, ON*

- Developing a full-stack web-application using React JS and Express JS to create a modern and visually appealing web-application regarding Guelph Dental
- Front-end developed to target an optimized SEO, while creating an aesthetic, efficient and easy-to-use interface
- Back-end utilizes Express and Node JS, providing endpoints utilized by the front-end to securely retrieve and manipulate MongoDB data
- Future proofing supported through various front-end components combined with the back-end, allowing the company to easily and securely change the web-application with zero coding

### Lotus (Free-Lance)

December 2021 – March 2022

*Front-end Developer*

*Hamilton, ON*

- Developing a front-end web-application using React JavaScript, creating a modern and responsive user interface to display various information pertaining to the Lotus restaurant
- Optimizing SEO through concise and updated metadata to increase customer traffic to the Lotus web-application
- Utilizing different techniques to improve website speed such as image optimization and CDN usage
- Numerous test to ensure the web-application is supported by major web browsers and responsive for different screen sizes

### Extreme PC (Co-op)

October 2018 – January 2019

*Tech Associate*

*Guelph, ON*

- Worked as a team to complete various tasks and projects such as, working together to do research on a product, subsequently updating the company website with the new product
- Built high quality computers to meet company standards, setting up the computers software and ensuring everything was up to date
- Troubleshoot and repaired computer hardware and software problems
- Assisted with customer service

## Personal Projects

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### Personal Portfolio | Gatsby, JavaScript, Material UI

November 2021 - Present

- Developing a front-end web-application, displaying resume-related information through a simple and responsive user interface
- Implementing Theme UI, Tailwind, Parallax, and Framer motion for various front-end components
- Utilizing the GraphQL layer to query static markdown data

### Schedule Maker | JavaScript, React, Node, Express, Mongoose/MongoDB, Firebase

July 2021 - August 2021

- Developed a full stack web-application using Gitflow as a version control, giving users the ability to create schedules saved under their personal accounts through a responsive and user-friendly interface
- Front-end implemented with React, Material UI, and Axios while the back-end utilizes the Node environment, following the REST API with Express JS to create endpoints

- Connects to MongoDB using Mongoose schemas and CRUD functions to store information regarding users personal accounts while also connecting to Google's Firebase to handle the web-applications user authentication

### **Discord Bot** | *Python, Heroku, MongoDB*

**April 2021 - May 2021**

- Developed a Discord bot written in Python utilizing the Discord.py API, featuring various commands that can be accessed by users in servers with the bot and deployed on Heroku servers for 24/7 service of the bot
- Implements multiple API's, supporting features such as, playing Youtube music, playing trivia games, and Google searching
- Connects to MongoDB with the support of various bot commands that provide users the ability to create and manipulate personal to-do list within the bot

## **Academic Projects**

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### **Course Information Web-application** | *JavaScript, NextJS, ReactJS, Playwright*

**November 2020**

- Worked as a team to develop a NextJS full-stack web-application, enabling users to search courses and graph course prerequisite trees through a React front-end
- Utilized Gitlab as a version control, using issues and milestones to plan out weekly sprints
- Using Playwright to webscrape UofG and UBC course and degree information in the back-end to be utilized in the front-end
- Automated tests implemented using Playwright to tests various front-end components, sending emails upon any errors with front-end elements

### **GPX Data Viewer Web-application** | *JavaScript, Node, Express, C, HTML5/CSS3, MySQL*

**January 2021**

- Created a full stack web-application to display information regarding GPX files uploaded by the user, including the ability to download the GPX files itself
- Front-end implemented with HTML5/CSS3 and Bootstrap to display various front-end components while using JQuery/Ajax to handle API calls to the back-end
- Back-end implemented using JavaScript and C to parse the XML within the uploaded GPX for information and uses Express JS to create endpoints
- Utilizes MySQL databases with multiple queries to save instances of current GPX files uploaded on the website upon user request with front-end elements

### **Electronic Store Search GUI** | *Java, Gradle, JUnit*

**November 2020**

- Developed a Java program, allowing users to add products with various information, also giving them the ability to search for products
- Allows the user to choose between using the console or the GUI implemented using the Swing class
- Used Gradle as a build tool to efficiently compile and execute all Java files developed
- JUnit used in conjunction with Gradle to test all functions developed and used in the program