BRANDEN PHAN

62 Castlebury Drive, Guelph, ON

📞 519-760-9091   ✉ phanb@uoguelph.ca   🏷 brandenphan.com   ⭘ github.com/brandenphan

Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS, C, C#, Python, Java
Frameworks: React, Express JS, Node JS, Mocha, Unity
Databases: MySQL, Mongoose ODM/MongoDB, Firebase
Tools: Git, Heroku, Netlify, Gradle, JUnit, Figma

Education

University of Guelph
2019 – 2024

Bachelor of Computing in Computer Science, Minor in Business
Guelph, ON

- Dean's Honours List (4.0 GPA/88%)
- $3,000 University Entrance Scholarship
- Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, Object-oriented Programming, Operating Systems, Discrete Structures, Software Engineering, Parallel Programming, UI Design, Game Programming, System Analysis & Design in Application, Software System Development & Integration

Experience

Cutsbyjz
Sep 2022 - January 2023

Full-stack Developer (Free-Lance)
Guelph, ON

- Design and developed a full-stack web-application, catering to the needs of Cutsbyjz clients
- Working in a team of two, utilizing Git tools such as issues, sprint boards and pull requests while following AGILE methodologies
- Utilizing Figma to create preliminary designs before coding in React TypeScript to create a modern web-application

Guelph Dental
May 2022 – June 2022

Front-end Developer (Free-Lance)
Guelph, ON

- Redesigned an aged web-application, creating a new and visually appealing web-application through various modern web development techniques
- Closely worked with the Guelph Dental staff and owners, ensuring the web-application meets the specific needs of Guelph Dental clients
- Front-end developed with React, utilizing Material UI and styled-components to create an aesthetic, efficient and easy-to-use interface
- Implemented an appointment booking system, sending API requests to Email JS to acquire client appointment information by email
- Website link: guelphdental.com

Lotus
December 2021 – March 2022

Front-end Developer (Free-Lance)
Hamilton, ON

- Built a front-end web-application using React JavaScript, creating a modern and responsive user interface to display various information pertaining to the Lotus restaurant
- Closely working with the Lotus owners to ensure the design characteristics and functionality are tailored towards the restaurants customers
- 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
- Deployed multiple test to ensure the web-application is supported by major web browsers and responsive for all screen sizes
- Website link: lotusrestaurant.ca

Personal Projects

Personal Portfolio | *JavaScript, Material UI*   **October 2022 - November 2022**
- Design and developed a web-application, display resume-related information such as education and experience through a simple and responsive interface
- Implemented Material UI and styled-components for various front-end components
- Utilized Figma to create web-application designs and used Mockup to create aesthetic images for the different experiences/projects

Schedule Maker | *JavaScript, React, Node, Express, Mongoose/MongoDB, Firebase*   **July 2021 - August 2021**
- Created an full-stack web-application, 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 to create endpoints
- Utilizes Mongoose schemas and CRUD functions to store information regarding users personal accounts while connecting to Google's Firebase to handle 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
- Coded a Discrod bot written in Python using the Discord.py API, featuring various commands that can be accessed by users in servers with the bot
- Developed on Heroku servers for 24/7 service of the bot
- Implements multiple API's to support features such as playing trivia games and Google searching

Academic Projects

Chess Bot | *Python*   **February 2023**
- Developing a Chess bot for an artificial intelligence course that will play against a user and make the best moves in order to defeat the user
- The Chess bot utilizes the minimax algorithm with A-B pruning to decide on the best play it can make while taking into account the users possible moves
- Code developed in Python using the terminal as an interface

Course Information | *JavaScript, Next, React, Playwright, Nginx*   **January 2022 - April 2022**
- Collaborated as a team of five to develop a full-stack web-application, allowing users to search courses and graph course prerequisite trees through a React front-end
- Used Gitlab to create issues and milestones, planning out weekly sprints while holding weekly retrospectives to reflect on group work
- Scraped UofG and UBC course and degree information in the back-end using Playwright and displaying the information in the front-end
- Created automated tests through Playwright, testing various front-end components every hour, sending emails upon any errors

GPX Data Viewer | *JavaScript, C, HTML, CSS, Node, Express, MySQL*   **January 2021 - April 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