JULIAN PATTERSON

 julian-patterson   (514)-929-1119   linkedin.com/julian-e-patterson   julian.e.patterson@icloud.com

EXPERIENCE

Prime Freight Logistics | *Junior Developer*   May 2024 – Aug. 2024
- Developed features such as a revised booking notification system and a streamlined purchase order management tool using JavaScript and React. These features automated manual tasks like sending booking updates and managing shipment data, while reducing errors and automating manual tasks.
- Developed a React-based tool for managing over 1,000 purchase orders, bookings, and unique item numbers, improving data retrieval with features like lazy loading and quick-add for multiple entries. This tool reduced search times and managed large datasets more efficiently by creating references between item numbers, purchase orders, and bookings/shipments.
- Collaborated with developers, others teams and clients to gather requirements, resolve issues, and conduct thorough testing in both development and production environments.

First Robotics Competition Team 296 | *Design Team Mentor*   Sept. 2019 – March 2022
- Led design meetings to facilitate high-level design discussions, brainstorming sessions, and prototyping.
- Utilized Excel and Autodesk Inventor to coordinate design, manufacturing, and assembly deadlines.
- Managed a subteam of students by organizing and delegating design tasks effectively.

EDUCATION

McGill University   2023-2026
B.Sc. Software Engineering

Marianopolis College   2021-2023
DEC Pure and Applied Sciences

Loyola High School   2017-2021
Second Honours

PROJECTS

Portfolio Website | *TypeScript, React, GitHub Actions, HTML, CSS*   Jan 2023
- Built a personal portfolio using React and TypeScript for robust and improved code quality.
- Implemented GitHub Actions to automate the deployment pipeline from a React Typescript application to a static HTML website for continuous integration and continuous deployment.
- Designed a user interface with Chakra UI, focusing on modern design principles and user experience. Employed the library to create aesthetically pleasing components, ensuring a cohesive and professional look and feel.

IoT Custom LED Controller | *Python, FastAPI, Docker, Linux*   May 2023
- Architected and implemented an LED controller tailored for the WS281x family of controllable LED strips, integrating with home automation systems utilizing a RESTful API.
- Created Docker-based deployments to ensure consistency and ease of deployment across various environments.
- Responsible for the migration from Flask to FastAPI for enhanced API performance, responsiveness, and stability. Utilizes JSON requests to control RGB/HSV colors and color sequences.
- Assumed responsibility for the day-to-day maintenance of the project through the Linux terminal, utilizing SSH connections for remote management

SKILLS

Languages: C, Python, Java, JavaScript/TypeScript, HTML/CSS, OCaml
Tools & Frameworks: Git/GitHub, Unix Shell, Docker, React, React Native, Flask, JUnit, FastAPI

ABOUT ME

Interests:
Skiing, backpacking, hiking, IoT / home automation, personal programming projects, UI/UX design

Languages:
Fluent in English and French, full professional written and spoken proficiency