John Park

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Education

McGill University **September 2019 – May 2024**
Bachelor of Engineering in Software Engineering *Montreal, Quebec*

Technical Skills

Programming Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Webots, Android Studio, Jupyter Notebook
Technologies/Frameworks: Linux, GitHub, JUnit, Vue.js, React, Scikit-learn, Pandas, Numpy
Languages: English (Native), French (Advanced), Korean (Beginner)

Experience

Ciena Corporation **May 2023 – May 2024**
OPS Lab Eng Stations Support *Saint-Laurent, Montreal*

- Reduced project budget input by 40% by designing a responsive **React.js** interface with **KendoReact UI** components, streamlining data entry for budget management.
- Enhanced data security for sensitive budgetary information by implementing role-based access control in **Java Spring Boot APIs**, ensuring complicance with organizational protocols.
- Improved data retrieval speed and optimized database performance by refining queries and managing a **Microsoft SQL Server** database for efficient storage and access.

Projects

League of Legends eSports Matches Predictor | *Python, Pandas, Scikit-learn* **2024**

- Achieved over 90% prediction accuracy in League of Legends eSports match outcomes by training a **Random Forest Classifier** with predictive features from Kaggle datasets using **Python** and **Scikit-learn**.
- Improved data reliability by preprocessing **3,700** rows of match data, reducing noise and ensuring cleaner inputs for the model.

Vision-guided Navigation Assistance for the Visually Impaired **Fall 2023 - Winter 2024**

- Developed a smart device-based navigation system to assist the visually impaired community in urban environments.
- Trained and optimized a **YOLO-based image classification model**, achieving up to 90% accuracy in detecting bus shelters under various lighting and weather conditions.
- Processed and labeled over 4,000 frames of bus shelters and 2,000 background images containing objects similar to bus shelters (e.g., gazebos, window frames, backlit posters, etc) for training the **machine learning model**.
- Implemented a mobile solution using an iPhone, delivering audio and haptic feedback to guide users to bus shelters.

PourDecisions Website | *JavaScript, HTML, CSS* **Winter 2021**

- Designed and developed a cocktail recipe generator application using the **MERN stack** (**MongoDB**, **Express**, **React**, and **Node.js**).
- Implemented the frontend using **React** to build a user-friendly and interactive interface.
- Developed a **search functionality** to allow users to search for cocktails based on ingredients, alcohol type, and more.
- Built a **RESTful API** using **Express.js** to handle user authentication and to interact with the database.