

Mitul Pandey

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EDUCATION

University of British Columbia

Bachelor of Applied Science in Electrical Engineering

Vancouver, BC

May 2024

WORK EXPERIENCE

Software Engineer Intern

May 2022 – Sep 2022

MacDon Industries

Winnipeg, MB

- Decreased lookup time by building a document scraper using Python to extract IO signals/devices information from MacDon's architecture and present it in a readable CSV format, and used a GUI to automate this process
- Improved data analysis capabilities by developing and implementing a second document scraper using Python that transformed 200 raw CAN signals into organized and readable DBC format
- Ensured seamless implementation in the latest version release by conducting unit testing using gTest on the MacDon's Hydraulic Float project

EXTRACURRICULAR TECHNICAL EXPERIENCE

Software Developer

Sep 2022 – Present

UBC Rover

Vancouver, BC

- Enhanced rover's navigation capabilities by implementing advanced algorithm for precise wheel control
- Increased signal ranges by upgrading the rover's GPS/GNSS system

Image Recognition Team Member

Sep 2021 – Sep 2022

UBC Agrobot

Vancouver, BC

- Optimized performance by collaborating with cross-functional team members to learn and implement ROS on the Agrobot
- Demonstrated expertise in utilizing NVIDIA Jetson board and its TPU capabilities for ongoing projects, resulting in the successful integration of Machine Learning models at the Edge

PROJECTS

LinkedUp | *HTML, CSS, JS, Bootstrap, MongoDB, React, Express, Nodejs, API*

April 2023

- Developed LinkedUp, a dynamic MERN stack web application for creating posts, comments, job search, and user following
- Utilized modern web technologies, such as HTML, CSS, JS, Bootstrap, MongoDB, React, Express, and Nodejs, to create a sleek and intuitive user experience
- Implemented advanced features such as search integration, secure user authentication and authorization using JSON Web Tokens, and efficient deployment practices to ensure optimal performance and user protection

Workflow Wiz | *HTML, CSS, JS, Python, Bootstrap, Django*

March 2023

- Formulated Workflow Wiz, a web-based project management application, utilizing HTML, CSS, JS, Django, Python, and Bootstrap, and deployed on Heroku
- Engineered key features such as project creation, task assignment, and chat thread communication, resulting in an intuitive interface for personal project management
- Devised the member addition feature to allow users to give view permissions to users added to the project

AeroMate | *HTML, CSS, JS, Bootstrap, Express, MongoDB, OAuth, APIs*

Feb 2023

- Created AeroMate, a web-based CRUD application for aviation enthusiasts to share airline information and communicate through posts and comments using HTML, CSS, JS, Bootstrap, Node.js, Express, and MongoDB
- Integrated the Flight Labs API and the Daisyscon API to extract flight information and logo
- Instituted Google OAuth for user authentication, and deployed the app on Heroku

Remembrance Rumble | *HTML, CSS, JavaScript*

Jan 2023

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, HTML, CSS, TypeScript, JSX, SQL, ROS, EJS

Databases: PostgreSQL, MongoDB

Developer Tools/ Technologies: Git, Confluence, AWS, Chrome DevTools, Node.js, JSON Web Tokens, Heroku

Frameworks/Libraries: Bootstrap, Express, React, Mongoose, Django