

Mitul Pandey

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EDUCATION

University of British Columbia

Bachelor of Applied Science in Electrical Engineering

Vancouver, BC

May 2024

General Assembly

Software Engineering Immersive Certification

Vancouver, BC

April 2023

WORK EXPERIENCE

Software Engineer Intern

MacDon Industries

May 2022 – Sep 2022

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

UBC Rover

Sep 2022 – Present

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

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 Daisycon API to extract flight information and logo
- Instituted Google OAuth for user authentication, and deployed the app on Heroku

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