

Dhananjay Patki

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Skills

Languages: C, C++, JavaScript, Python, Rust, HTML/CSS, SQL

Tools: Node.js, React, React Native, Linux, GCP, Firebase, MongoDB, Visual Studio, Jenkins, Django, Sphinx

Experience

Machine Learning Developer Student, Blackberry | May 2021 – August 2021

- Completed a CI/CD system with **Jenkins** to automatically test, build, and publish a **Django**-based ML service
- Integrated DevOps tools & practices for automatic versioning, test feedback, and manage a release process
- Improved usability with new error messages, improved exception handling, and accessibility features
- Rewrote our test suite to cover and test the elements present in the codebase more effectively

IOT Sensor Development Intern, MedVita Inc. | April 2020 – September 2020

- Connected custom PCBs & AVR with **Google Cloud Platform** & **Firebase**
- Implemented a host-device communications system, increasing communication speed by 700%
- Integrated host-device and host-cloud communications with **Node.js** server

Data Science Analytics Team, STEM Fellowship | March 2018 – Present

- Created and delivered workshops in **R** and **Python** to high school and undergraduate students
- Designed a Slack bot to automatically pair students & mentors using **Python**, reducing workhours by 90%
- Analyzed entrance surveys from over 100 challenge participants to provide insights on various KPIs

Projects

COVID Connections | [Hack The North](#) 

- Built a full-stack Android app using **React Native** allowing users to see the COVID risk of their social group
- Developed REST APIs to communicate with a **MongoDB** database using **Express.js**
- Allowed users to change their anonymity in their social group via a custom-built settings page

Smart Garden | [Automated Plant Care System](#) 

- Produced a basic video livestreaming using the **Socket** and **PiCamera** libraries on a Raspberry Pi, allowing users to monitor their plant remotely
- Provided algorithmic plant lighting and brightness detection using **Pillow** & Python
- Integrated Python brightness detection with Node.js Server & **MongoDB**

Cli-Mate | [2020 Youth Central Hackathon Best Technology Award](#) 

- Created a service using **Twilio's** WhatsApp API and Python to offer users daily challenges
- Tracked user statistics and sent challenges via a **Flask** server

Education

University of Waterloo, Candidate for Bachelor of Software Engineering (2020-2025)

- 3.97 Cumulative GPA