# PARTH PATEL

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#### **SKILLS**

**Languages**: Python, JavaScript, C++, C#, PHP, SQL, HTML/CSS **Frameworks/Libraries**: Flask, Node.js, Express, Pandas, React

Development Tools: Postman, MongoDB, AWS, Firebase, Bash, Jira, Git, Docker

### **EDUCATION**

# **University of Waterloo**

Sep 2020 - Apr 2025

Bachelor of Applied Science — Systems Design Engineering

Waterloo, ON

- Cumulative GPA: 3.93/4.00, Dean's Honours List Recipient
- Relevant Courses: Data Structures and Algorithms, Digital Computation (C/C++), Human Factors in Design

#### **EXPERIENCE**

# Backend Software Engineer Intern - Reebee, Inc

Sep 2021 - Present

Technologies: PHP, MySQL, Postman, Golang, AWS, Snowflake, Jira

Kitchener, ON

- Saved the company \$2000/day by recovering over 470,000 user metrics during a massive AWS Aurora crash
- Developed an algorithm to efficiently share items across 650,000+ flyer pages in seconds using PHP and MySQL
- Lowered API runtime by 43% through restructuring embedded mapper functions and removing trivial data from requests
- Fixed over 125 critical errors and reduced memory usage by 32% through refactoring the codebase with PHPStan

## Software Developer Intern — Ceridian

Jan 2021 - Apr 2021

Technologies: C#, Azure, MongoDB, Postman, SQL, Kubernetes, Docker

Toronto, ON

- Streamlined data retrieval processes for 350+ engineers by building a centralized configurations micro-service using C#
  and MongoDB, ensuring that every team's data can be grouped and securely retrieved in one localized place
- Reduced app failures by 96% through developing a retry policy within API calls to automatically re-send failed requests
- Cut down risk of security breach within sensitive APIs to <1% by developing an authentication middle-ware with C#/JWT</li>
- Increased code coverage from 53% to over 90% with unit testing in Xunit that ensured correctly functioning code

## Full Stack Developer — Waterloop

Sep 2021 - Present

Technologies: Node.js, Express, PostgreSQL, Mocha, Chai, React

Waterloo, ON

- Built the backend for a new recruitment service, replacing Google Forms, using Node.js, Express and PostgreSQL
- Developed API endpoints with **Node.js** and **Express** that introduces blog posts within the team's web interface
- · Created new and modified existing integration tests with Mocha and Chai, certifying high performant code

#### **PROJECTS**

Diversify (Spotify Analytics Web App) 🗹 | Python (Flask, Pandas), Azure, Spotify Web API, Chart.js, Heroku, HTML/CSS

- Developed a web app that visualizes over 600 users' Spotify data and recommends new songs based on their interests
- Designed a Python/Flask backend which handled 58,000+ requests to multiple endpoints for processing user data
- Parsed 2300 data points of song features with Pandas and analyzed its sentiment using Azure to recommend new music

## **Companion (nwHacks 2021 Project)** ☑ | *Node.js, Express, Socket.io, Firebase*

- Received Honorable Mentions out of **700+ participants** for building a mental health chatroom at a 24-hour hackathon
- Configured a chat with **Socket.io** that ensures healthy conversations through an **AFINN-based sentiment analysis** model
- Integrated Firebase to perform authentication via Google OAuth and store real-time user metrics collected on the app

## YearView (Nostalgic Photo Storage App) [27] Python (Flask), MongoDB, JavaScript, HTML/CSS

- Constructed a **Flask** backend connected to a serverless **MongoDB** instance allowing fast image upload and delete
- Built RESTful API endpoints for encrypting user login details and image keys, enabling safe photo manipulation
- Decreased image upload time by over 50% through handling file uploads in bulk rather than one-by-one additions

#### **INTERESTS**