

# PARTH PATEL

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## TECHNICAL SKILLS

**Languages:** Python, JavaScript, C++, PHP, C#, SQL, HTML/CSS

**Frameworks/Libraries:** Flask, Node.js, Express, React, Pandas

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

## EDUCATION

### University of Waterloo

Bachelor of Applied Science — Systems Design Engineering

Sep 2020 - Apr 2025

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

## WORK EXPERIENCE

### Backend Software Engineer Intern — Reebee, Inc

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

Sep 2021 - Present

Kitchener, ON

- Joined the product team to develop features for Reebee's core application facing **1.2+ million** monthly users
- Developed backend services to efficiently share items across **650,000+** flyer pages in seconds using **PHP** and **MySQL**
- Reduced API run time by **43%** through restructuring embedded mapper functions and removing trivial data from requests

### Software Developer Intern — Ceridian

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

Jan 2021 - Apr 2021

Toronto, ON

- Reduced data retrieval time from **3+ minutes** to under **20 seconds** by leading the end-to-end development of a micro-service using **C#**, providing developers easy access to thousands of app configurations stored in **MongoDB**
- Lowered 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**
- Increased code coverage from **53% to over 90%** with unit testing in **Xunit** that ensured correctly functioning code

## EXTRACURRICULARS

### Full Stack Developer — Waterloo (Student Design Team)

Technologies: Node.js, Express, PostgreSQL, Jest, React

Sep 2021 - Present

Waterloo, ON

- Developed API endpoints with **Node.js** and **Express** that allows creating blog posts within the team's web interface
- Utilized **PostgreSQL** to query the team's content management database to manipulate blog data in real-time
- Raised the overall code coverage by **40%** through creating integration tests, using **Jest**, for newly built endpoints

## TECHNICAL 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 handles **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) 🔗 | 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

Garba (7+ Years of Indian Dance), Hackathons, Basketball, Astronomy, CrossFit, Music, Writing (Medium 🔗)