

# PARTH PATEL

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## EDUCATION

### University of Waterloo

Bachelor of Applied Science in Systems Design Engineering

Waterloo, ON

Sep 2020 – Apr 2025

- **cGPA/Awards:** 86%, Motorola Engineering Scholarship, President's Scholarship
- **Relevant Courses:** Data Structures and Algorithms (95%), Digital Computation (100%), Digital Systems (89%)

## EXPERIENCE

### ODAIA Intelligence

Software Engineer Intern

Toronto, ON

May 2022 – Aug 2022

- Led the end-to-end implementation of an AWS solution to overcome Lambda size limits by migrating dependencies to **AWS S3** and **Docker**, resulting in deployment package sizes decreasing by **63%**
- Optimized development efficiency by configuring every **AWS Lambda function** to follow a serverless application framework using **AWS SAM** and **CloudFormation**, allowing lambdas to be tested and deployed locally
- Saved engineers up to **10 hours/week** in debug time by upgrading all application code, pipelines and Lambda Layer dependencies to **Python 3.9** which refined the overall maintainability of the codebase
- Improved API performance by **76%** through building a **Python** tool that stops Lambdas from timing out during table locks

### Reebie

Backend Software Engineer Intern

Kitchener, ON

Sep 2021 – Dec 2021

- Reduced the time to build flyers by up to **1.5 hours** through developing a REST API with **PHP** and **MySQL** that validates and automatically populates flyers with products requested by retailers
- Automated data stream ingestion into a **Snowflake** Data Warehouse from **AWS Aurora** using **ETL scripts** to store real-time analytics from **200k+ daily users** and scale upwards during traffic spikes
- Performed **test-driven development** by writing unit tests when developing new APIs, ensuring **over 85% code coverage**

### Waterloop

Full Stack Developer

Waterloo, ON

Sep 2021 – Dec 2021

- Built the backend for a recruitment service to track **100+ applicants** during hiring cycles using **Node.js** and **PostgreSQL**
- Developed API endpoints with **Node.js** and **Express** that allows blog posts to be created within the team's CMS
- Created new and modified existing integration tests with **Mocha** and **Chai** to monitor service uptime

### Ceridian

Software Developer Intern

Toronto, ON

Jan 2021 – Apr 2021

- Streamlined the data retrieval process for **150+ engineers** by building a centralized configuration manager using **C#** and **MongoDB**, allowing every team to securely retrieve data from one place
- Decreased the loading time for monolith configuration by **90%** through implementing a retry policy with an **exponential backoff algorithm** in API calls to handle server-side failures
- Developed **authentication middle-ware** to enable safe data transfer of AppConfigs with **C#** and **JWT**

## PROJECTS

### Diversify (Spotify Analytics Web App) [🔗](#) | Python, Azure, Heroku, HTML/CSS, Spotify API

- Developed a web app, gaining **1k+ users**, that visualizes Spotify data, recommends music and builds playlists
- Parsed song features with **Pandas** and analyzed its sentiment using **Azure** to recommend new music

### PoliViews (Hack the North Project) [🔗](#) | Python, React, Azure

- Created a political search engine that shows users the ideas from each Canadian political party in a quick and easy manner
- Built a **Flask API** that consumes aggregated political data, scraped with **Beautiful Soup** and **Azure**, to display to the client

## SKILLS

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

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

**Developer Tools:** AWS, MongoDB, Azure, Heroku, Bash, Postman, Git, Bitbucket, Jira