

# PARTH PATEL

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## SKILLS

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

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

**Technologies:** AWS, MongoDB, Azure, Docker, Git, Bitbucket, Jira

## EDUCATION

### University of Waterloo

Waterloo, ON

B.A.Sc. Systems Design Engineering

Sep 2020 - Apr 2025

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

## EXPERIENCE

### ODAIA

Toronto, ON

Software Engineer Intern

May 2022 - Aug 2022

- Led the development of new **cloud infrastructure** to provide seamless management of AWS resources and optimize code testing/deployment processes for engineers, using **AWS CloudFormation** and **Bash**
- Decreased **AWS Lambda** deployment package sizes by **63%** to overcome Amazon's Lambda size limits by migrating dependencies to **AWS S3** and **Docker**
- 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

### Reebee

Kitchener, ON

Backend Software Engineer Intern

Sep 2021 - Dec 2021

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

### Waterloop

Waterloo, ON

Full Stack Developer

Sep 2021 - Dec 2021

- Led the development of an internal ATS to track **100+ applicants** during hiring cycles, using **Node.js** and **PostgreSQL**
- Developed API endpoints with **Node.js** and **Express** that allow 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

Toronto, ON

Software Developer Intern

Jan 2021 - Apr 2021

- Streamlined the data retrieval process, used by **150+ engineers**, by building a centralized configuration manager using **C#** and **MongoDB**, allowing every team to securely retrieve their data from one place
- Reduced server-side errors by **85%** through integrating a retry policy with an **exponential backoff algorithm** into API calls to prevent failed requests
- 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

## INTERESTS

Garba (Indian Dance), Hackathons, Basketball, Calisthenics, Tennis, Astronomy