PARTH PATEL

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SKILLS

Languages: Python, JavaScript, C/C++, SQL, C#, Bash, HTML/CSS
Frameworks/Libraries: Flask, Node.js, React, Express, Pandas
Development Tools: AWS, MongoDB, Azure, Docker, Git, Bitbucket, Jira

EXPERIENCE

ODAIA   Toronto, ON, Canada
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 with **AWS SAM** 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, Canada
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, Canada
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, Canada
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 custom playlists
- Parsed song features with **Pandas** and analyzed its sentiment using **Azure** to match new songs to users

PoliViews (Hack the North Project) [↗] | *Python, React, Azure*
- Created a political search engine that displays 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

EDUCATION

University of Waterloo   Waterloo, ON, Canada
B.A.Sc. Systems Design Engineering   *Sept 2025 – Apr 2025*
- **GPA/Awards:** 86%, Dean's Honours List Recipient, Motorola Engineering Scholarship, President's Scholarship
- **Relevant Courses:** Data Structures and Algorithms (95%), Digital Computation (100%), Digital Systems (89%)

INTERESTS

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