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

EXPERIENCE

Backend Software Engineer Intern — Reebee, Inc

Sep 2021 - Dec 2021

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

Kitchener, ON

- Reduced flyer creation times by up to **1.5 hours** through developing an item sharing API endpoint that automatically filters and transfers all retailer-requested items from existing flyers to their desired ones, using **PHP** and **MySQL**
- Prevented **over \$1,000/day** in losses by creating a fail-over environment in **AWS EC2** to leverage traffic during outages
- Mitigated 100+ errors and reduced memory usage by 18% through refactoring the codebase with PHPStan
- · Automated the user engagement system to filter, group, and pass daily emails to Zendesk for easy management

Software Developer Intern — Ceridian

Jan 2021 - Apr 2021

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

Toronto, ON

- Streamlined the data retrieval process 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 place
- Reduced app failures by implementing an **exponential backoff algorithm** within API calls to retry failed requests and improve the overall reliability of the application
- Developed authentication middle-ware to secure sensitive API endpoints within various internal tools using C#/JWT
- Increased code coverage from 53% to over 90% with unit testing in Xunit to monitor service up time

Full Stack Developer — Waterloop (Student Design Team)

Sep 2021 - Dec 2021

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 to ensure correctly functioning code

PROJECTS

Diversify (Spotify Analytics Web App) [27] Python (Flask, Pandas), Azure, Spotify Web API, Chart.is, Heroku, HTML/CSS

- Developed a web app that visualizes 600+ users' Spotify data and recommends new songs based on their interests
- Designed a Python/Flask backend which handled over 58,000 requests to multiple endpoints for processing user data
- Parsed song features with Pandas and analyzed its sentiment using Azure Cognitive Services 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 to store real-time user metrics collected on the app

YearView (Nostalgic Photo Storage App) 2 | 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

EDUCATION

University of Waterloo

Sep 2020 - Apr 2025

Bachelor of Applied Science — Systems Design Engineering

Waterloo, ON

- Cumulative GPA: 3.93/4.00
- Relevant Courses: Data Structures and Algorithms, Digital Computation (C/C++), Digital Systems (Circuits/Assembly), Human Factors in Design

INTERESTS