Parth Patel

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Education

San Jose State University – *Master's in Software Engineering | GPA: 3.7*   *Jan 2025 – Present*

University of Toronto – *Bachelor of Science in Mathematics and Statistics*

Work Experience

Deloitte, Software Engineer   *July 2022 – Nov 2024*

- Built a React, Typescript , HTML, CSS & Flask web application, delivering real-time vaccine data to 3 teams
- Created a Python microservice that detected & redacted PII at 99% accuracy from healthcare data in real-time.
- Used Git for collaborative development and built CI/CD workflows to deploy features efficiently to AWS ECS in a fast-paced Agile environment.
- Implemented a form automation tool using JavaScript & SQL, reducing support ticket handling time by 2+ hours.
- Designed and implemented a MongoDB data model connected via RESTful APIs to query vaccine data records.
- Refactored legacy code using Python based Azure Functions with lightweight APIs, improving system performance by 30%.
- Won the Deloitte Silver Dot Award for leading a full-stack project in an Agile, cross-functional team for the Public Health Agency of Canada.

Projects & Research

TenMunches – AI-Driven SF Food Discovery Platform

- Built an interactive web app with React, TypeScript, HTML, CSS & Next.js enabling users to explore AI-curated food & drink spots in San Francisco across 20 categories.
- Scraped 10,000+ Google reviews and 200+ local articles using Python to curate hidden food gems.
- Extracted sentiment insights using a custom Python NLP pipeline, ranking businesses by authentic testimonials.
- Stored and queried structured business insights in MongoDB, enabling efficient category-based filtering.

QuizMaster – AI-Powered Quiz App

- Developed an AI-powered quiz generation platform using React, TypeScript, Next.js – serving 25 active users.
- Built the backend with Next.js API routes, integrated with Gemini API via AWS Lambda and API Gateway.
- Implemented CI/CD pipelines via Git and AWS CodePipeline for automated deployments to AWS EC2.
- Used AWS DynamoDB and S3 to persist user quizzes and documents, supporting access with Lambda APIs.
- Integrated Google Firebase for authentication/authorization, enabling secure Gmail logins with quiz tracking
- Ensured code quality through comprehensive unit and integration testing using Vitest and custom mock APIs.

Research at San Jose State University – AI-Powered Code Feedback System

- Developed a Python AI model by analyzing 24 semesters of student code to generate automated feedback.
- Containerized the training, model, and inference API using Docker for reproducible deployment and testing.
- Deployed the feedback system via GitHub Actions for CI/CD, enabling instant feedback delivery across 8 classes at 2 universities.