

Uday Rana

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EXPERIENCE

Government of Ontario - Ministry of Children, Community, & Social Services

2023 Sep – 2024 Apr
Toronto, ON

Application Programmer (Co-op)

- Developed an AI-powered chat bot leveraging Python, OpenAI, and LangChain to automate document parsing, web scraping, and report generation, streamlining processes and improving efficiency
- Designed and implemented a responsive web application using Flask, simplifying the enterprise architecture review process by automating form filling, summarizing differences between operational plans, and generating risk assessment reports, resulting in a significant reduction in review time
- Collaborated with clients to accurately document and meet project requirements, demonstrating strong communication and interpersonal skills
- Wrote comprehensive documentation to ensure team cohesion and understanding
- Set up CI/CD pipelines for continuous integration and deployment, optimizing software development processes and enabling faster delivery of high-quality solutions
- Designed user-friendly UI mock-ups using Figma to ensure efficient user interaction and enhance the overall user experience

Paragon Protection

2022 Nov – 2023 Aug
Toronto, ON

Security Guard

- Provided exceptional customer service by greeting guests warmly, answering inquiries, and assisting with requests promptly and professionally
- Maintained detailed records for future reference, including creating special incident reports and daily reports, ensuring accurate and comprehensive documentation

EDUCATION

Seneca Polytechnic

2022 Jan – 2024 Dec
Toronto, ON

Computer Programming & Analysis Advanced Diploma

- **Academic Contributions:** Contributed to official course notes for WEB222 (Web Programming Principles) and OOP244 (Intro to Object Oriented Programming), collaborating with professors to debug errors in code examples

PROJECTS

Seinfeld Chat Bot

Node.js, Express.js, Python, Flask

- Built a bot for the 'Discord' chat platform which responds as characters from the TV series 'Seinfeld' using OpenAI, achieving a peak of 8 active and 50 unique users
- Created a web API using Express.js to respond with quotes based on filters such as author, season, and episode
- Deployed on a self-hosted private server with monitoring services and error logging, ensuring 24/7 uptime

Museum Art Collection Viewer

TypeScript, React.js, Next.js, Node.js, Express.js, MongoDB, React Bootstrap

- Developed a dynamic Next.js web app for browsing art exhibits from the Metropolitan Museum of Art Collection API, optimizing SEO with client-side rendering and static site generation
- Implemented state management for marking and viewing favourite exhibits, and CI/CD pipelines through GitHub Actions and Vercel, enabling rapid deployment
- Achieved perfect Lighthouse scores by optimizing load times with Next.js image optimization and adhering to Core Web Vitals

SKILLS

Programming Languages

JavaScript, TypeScript, HTML, CSS, Python, C++, C, Bash

Database Management

Oracle, MySQL, PostgreSQL, MongoDB, SQL, Oracle PL/SQL

Web Development

Next.js, React, Node.js, Express, Flask, Bootstrap, TailwindCSS, Jest, Cypress

Version Control & CI/CD

Git, Github Actions, Vercel, Netlify, Render

AWARDS

President's Honor List Award (Summer 2023, Winter 2023, Summer 2022, Winter 2022)

Seneca Polytechnic

- Awarded for outstanding academic achievement (4.0 Term GPA)