

Shaheer Khan

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EDUCATION

University of Guelph

Bachelor of Computing, Software Engineering (Co-op), Minor in Business (GPA: 3.86/4)

Guelph, ON

Sept. 2022 – Present

TECHNICAL SKILLS

Languages: Python, C, TypeScript, JavaScript, C++, C#, SQL, HTML/CSS, Java

Frameworks: React, Next.js, Flask, JUnit

Developer Tools: Git, Docker, VS Code, Unity, Visual Studio, Cloudflare

Libraries: OpenAI API, Regex, pandas, Matplotlib, Openpyxl, Scrapy, Playwright

EXPERIENCE

Research Data Analyst

June 2024 – Sept 2024

University of Guelph

Guelph, ON

- Developed a web-scraping tool that reduced research turnaround time from 1 week to 10 minutes, improving efficiency by over 90% and streamlining workflows significantly
- Ensured that legal and ethical guidelines on web-scraping were followed, and that data was collected reliably
- Performed data manipulation and visualization in Microsoft Excel, utilizing pivot tables and formulas to visualize a large data set for research insights and using Python libraries to automate data entry

PROJECTS

Employment Housing Index | React, Java, Python, MariaDB

Feb. 2025 – Apr. 2025

- Collaborated in a team-based agile environment with weekly sprint meetings to develop a full-stack system analyzing correlations between unemployment and housing activity in Ontario cities.
- Built a React frontend for dynamic data exploration with filters and graphs, backed by a Java-based API and a MariaDB database populated through a Python parser for cleaning and ingesting raw regional datasets.
- Implemented CI/CD pipelines with linters and unit tests to uphold code quality and deployment integrity across the stack, ensuring stable and reliable system performance throughout development.

Full-Stack Solitaire | Python, Flask, React, SQLite3, JavaScript

Sept. 2024 – Dec. 2024

- Developed a full-stack solitaire web application with front-end game logic built in React
- Implemented a REST API using Flask to allow game state saving, loading, and leaderboard functionality
- Utilizing drag-and-drop functionality to allow intuitive card movement

Personal Website | React, Next.js, HTML/CSS, Linux, Docker, Cloudflare

May 2024 – June 2024

- Built personal website using Next.js featuring server-side rendering and SEO optimization
- Incorporated interactive elements through the use of libraries like tsParticles, creating a sleek modern site aesthetic with visually appealing animations
- Deployed the website using Docker on a personal Linux server and routed through Cloudflare for optimal performance and protection against attacks

8-Ball Pool | C, Python, HTML/CSS, JavaScript, JQuery, SQLite3

Jan. 2024 – Apr. 2024

- Developed a full-stack 8-ball pool game with a responsive HTML interface for seamless user interaction
- Integrated an SQL database to store game states and frame data, dynamically retrieving information using jQuery for real-time rendering
- Implemented game logic in C and Python, ensuring accurate physics calculations and smooth gameplay mechanics

CalendarGPT | Python, Flask, HTML/CSS, JavaScript, OpenAI API

June 2023 – Nov. 2023

- Created an AI-powered assistant that utilizes the Google Calendar API to access and manage calendar events
- Designed to enhance user organization and facilitate scheduling of future events through intuitive natural language interactions
- Implemented the application using Python and Flask for the backend, with a responsive front end developed in HTML, CSS, and JavaScript