SHADMAN SOHEL

Toronto, ON | shadman.sohel@torontomu.ca | 905-251-2304 | linkedin.com/in/shadman-sohel | shadmansohel04.github.io/Resume/

SUMMARY OF QUALIFICATIONS

- Versed in programming languages **Java, Python, C, and JavaScript**, with 2+ years of project development experience.
- Experienced in backend development with expertise in **Node.js and Flask** for building scalable server side applications.
- Adept in database management with **PostgreSQL, MongoDB, and SQL**, ensuring efficient data storage and retrieval.
- Proficient in frontend development using **HTML, React and CSS** with Tailwind for building responsive user interfaces.
- Skilled in development tools, including **Git** for pull request management and **AWS** for cloud services deployment.

EDUCATION

Bachelor of Engineering (BEng): Computer Engineering   *September 2022 - Current*
Toronto Metropolitan University

- **Relevant Coursework:** Database Systems, Software Systems, Algorithms and Data Structures, Electronic Circuits

WORK EXPERIENCE

RAISEIT   Toronto, Ontario
Software Engineering Intern   *September 2024 - Current*

- Revamping the platform's frontend to enrich user experience and ensure responsive design using **Tailwind CSS & React**.
- Develop server-side services with **Express and Node.js**, utilizing **JWT-based authentication** maintaining security.
- Leverage **MongoDB** for efficient data management and querying, with sub-50ms response times, supporting a team of 10.
- Apply Python libraries like **BeautifulSoup** and **Selenium** for web scraping to extract, clean, and analyze data from 100+ web pages, automating workflows and delivering insights 20% faster.

FACULTY OF ENGINEERING & ARCHITECTURAL SCIENCE DEPARTMENT   Toronto, Ontario
Project Manager   *September 2024 - Current*

- Mentor 95 first-year engineering students, overseeing assignments and aiding communication via emails and meetings.
- Evaluate assignments, provide support with engineering concepts and **MATLAB**, and ensure student comprehension.
- Monitor collaboration, resolve conflicts, and promote effective teamwork to achieve successful project outcomes.

FIRST YEAR ENGINEERING OFFICE   Toronto, Ontario
Academic Initiatives Support Assistant   *May 2024 - August 2024*

- Served as the primary contact for academic advising, addressing the needs of over 1000 first-year engineering students.
- Enhanced AI chatbot performance using **PyTorch** by implementing **NLP preprocessing techniques**, including tokenization, stemming, and stop-word removal, resulting in improved accuracy of query responses.
- Conducted research and data analysis to produce over 10 reports supporting best practices for new advising resources.

PROJECTS

LEETBOT - 1st Place Winner (Ignition Hacks) | *Flask, Socket.io, React, NES.CSS* | leetcodebot-gumy.onrender.com   August 2024

- Developed an online probability based PvP game featuring player profiles derived from public LeetCode statistics.
- Built a **Python Flask** backend to maintain **WebSocket connections** with **Socket.io**, for live interactions and updates.
- Designed an adaptive player interface using **React.js** and **NES.CSS** while emitting to WebSocket connections.
- Integrated **Mistral AI** for generating usernames and the **LeetCode GraphQL API** to track and display player statistics.

RATETO - Full-Stack Web Application | *Python, React, Flask, PostgreSQL, CSS, EC2* | rateto-frontend.onrender.com   August 2024

- Engineered a full-stack app using **OpenData Toronto** to offer transportation, greenspace, and safety scores for residents.
- Designed and implemented a **Flask backend API** hosted on an **EC2** instance to handle data analytics, including score calculations and location-based data retrieval, optimizing performance and reducing processing time by 30%.
- Built a responsive and accessible frontend with **React** and integrated **React-Leaflet** for interactive map functionalities.

TMRUN (Startup: Founder) | *React, Express, NodeJS, MongoDB, CSS* | tmrun-1.onrender.com   May 2024

- Developed a full-stack web app integrating **Strava API** to generate motivational performance scores for beginner runners.
- Designed and implemented a **RESTful API using Node.js and Express** to handle user authentication, Strava data retrieval, and segment-based analytics, tailored to track beginners' progress more effectively than overall time.
- Utilized **MongoDB** to manage user profiles, run data and scores, ensuring fast retrieval and a seamless experience.