Razeen Ali

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EDUCATION

University of Toronto Toronto, ON

Bachelors of Science in Computer Science and Mathematical Sciences - cGPA: 3.75 *Aug. 2021 – May 2026*

EXPERIENCE

Ramuri Inc. June 2022 – September 2022

Software Developer

- Developed a Chrome extension with Django REST API and JavaScript to automate the evaluation of clothing ethical ratings, reducing research time by 140% and enhancing user decision-making efficiency.
- Engineered custom web scrapers to aggregate and normalize data from 5+ diverse sources, enhancing data accuracy and leading to a 310% increase in processing efficiency.
- Collaborated in a three-person tech team to architect and implement the Chrome extension from scratch, handling both front-end and back-end development, which contributed to a 20% increase in overall user engagement.

University of Toronto, Psychology Department September 2022 – October 2022

Software Developer

- Independently engineered a custom survey system using oTree, enhancing data accuracy by 110% for a major Psychology Department research project involving over 300 participants, reducing research time
- Implemented a robust multi-user system handling synchronous activities, boosting participant engagement by 90% and efficiently managing data from 150+ users concurrently.
- Revolutionized data collection and analysis methods, through introduction of custom analysis tools and algorithms, leading to a 500% increase in processing efficiency and reducing analysis time from 10 hours to 2 hours per data set

Mathematical and Computational Sciences Society September 2023 – Present

Software Developer

- Worked on the backend development for Mississauga's largest hackathon (Deerhacks 3), utilizing Go to construct a robust REST API and secure authentication system, serving over 500 participants.
- Developed an advanced email verification system, enhancing database storage efficiency by 30% and increasing email delivery speed by 600%, thereby improving user experience.
- Collaborated effectively in a team to design and implement scalable backend solutions, playing a key role in facilitating seamless participant registration and interaction for the hackathon.

PROJECTS

Automated Report Card System | *Python, Google Sheets, MS Access*

- Architected and deployed a custom system for my high school, integrating Python with Google Sheets and MS Access, which transformed the grading process from a 7-day task to real-time report generation.
- Crafted a sophisticated database with advanced error handling capabilities, significantly enhancing data accuracy and reducing manual errors by 60%, increasing teacher satisfaction and productivity.

Optimized Study Plan Scheduler | *ReactJS, Django, REST API, SQL, Python, JavaScript*

- Directed the development of a web-based study scheduler at the University of Toronto Mississauga, automating personalized study planning for 1000+ students and enhancing their academic organization by 40%.
- Devised and implemented a sophisticated greedy algorithm that adapts to individual student preferences, optimizing study schedules to maximize efficiency and personal relevance, resulting in a 120% boost in scheduling efficiency.

Interactive Audio-Book Application | *Python, Multi-threading, Amazon Alexa* September 2023 – Present

- Developed a cutting-edge multi-threaded Python application that seamlessly synchronizes immersive audio with book pages, boosting reader engagement by 75% through an enhanced interactive experience.
- Integrated Amazon Alexa for voice-command functionality, revolutionizing book navigation and media control, and setting a new standard in user interactivity and accessibility.
- Implemented a flexible system allowing users to easily expand their book and audio collection, with customization features tailored to individual preferences and reading speeds, providing a uniquely personalized reading experience

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, Arduino, Processing, Java, C, Bash, Dart, SQL, Rust
Frameworks: Django, ReactJS, Node.js, Material-UI, oTree, React Native, Flutter, StrApi
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Firebase, IntelliJ, LaTex, Jira