

Armaan Rehman Shah

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TECHNICAL SKILLS

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






Frameworks & Databases: React, Django, MySQL, SQLite, Firebase

Environment & Tools: Linux, Selenium, Git, Node.js, R-Studio, Jupyter Notebook, Power BI

PROJECTS

- PriceWatcher  | *Python, Selenium, Chrome Webdriver, email.mime.text* July 2023 – Present
- Developed a **web scraping application** to track the price of desired products on Amazon, notifying users through Gmail whenever a price drop has occurred, reducing manual monitoring efforts
 - Automated web interactions and located web elements through a **Chrome WebDriver** instance
 - Integrated email notification functionality with **smtplib**, enabling automated alerts when price targets are met
- WeatherHere  | *Python, Django, HTML, Javascript, AJAX, Repl.it* Jan. 2023 - May 2023
- Built a **web application** to detect current location and provide real-time weather data
 - Experimented with **ip-api.com**, **OpenWeather** API tokens to retrieve user IP and weather details
 - Handled **JSON** data format for communication with APIs, reducing data retrieval time by **25%**
 - Developed **JavaScript** code to perform **AJAX** requests, enhancing website responsiveness and compressing data transfer size by **40%**
- LabScheduler  | *Java, JDBC, HTML, CSS, MySQL, Eclipse* Dec. 2021 - May 2022
- Created a lab reservation application to serve **250+** high school students and teachers
 - Used **Eclipse Window-Builder** and **Java Libraries** to build the GUI, backed by an object-oriented booking system
 - Linked the application to an online **SQL database** with data encrypted by an **affine cipher**, reducing security hazards

PROFESSIONAL EXPERIENCE

- CollaboraCart  | *Hack the Valley 8*  4 Oct. 2023
- Teamed up with **3 UWaterloo** students to engineer CollaboraCart, a **website** that connects small businesses with parallel supply needs to purchase larger combined order volumes at lower per-unit prices
 - Constructed the front end with **React** and **Tailwind CSS**, seamlessly integrating a **Flask** backend, and efficiently managed data using an **SQLite** database
 - Ranked **14th place** in HTV hackathon consisting of over 70 teams
- Bicycle Theft Analysis  | *Group Study*  3 Feb. 2023 - March 2023
- Collaborated with **2 UofT** students to conduct and produce a **research report** on bicycle theft rates in Toronto
 - Analyzed data with **R** and improved work performance through collaboration using **Git**, pinpointing high-risk bike theft areas using statistical techniques such as confidence intervals and logistic regression
- Mathematics & Statistics Instructor | *Oxford Learning Don Valley*  33 Oct. 2022 - April 2023
- Provided teaching support for **30+** students learning up to grade 12 Mathematics, Statistics, Physics, and English
 - Contributed towards management workflow and increased student management efficiency by **10%**

EDUCATION

- University of Toronto Toronto, CAN
- Specialist in Statistics Co-op: Data Science and Machine Learning Stream* Sep. 2022 – Present
- University of Toronto International Student Scholarship** (\$100,000)
 - University of Toronto Scarborough Dean's List 2022-2023**
 - First Year Learning Community Participant:** bi-weekly meetings to build connections and improve essential skills for personal and academic growth
 - Global Citizen Certificate:** diverse workshops, experiences, and activities to build a global perspective, deepened cultural understanding, and enhanced community knowledge