

Avi Walia

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EDUCATION

University of Toronto

Sep. 2022 – Apr. 2026

Bachelor of Computer Science, Specialist in Data Science

Toronto, ON

Relevant Courses: Data Science, Machine Learning, Artificial Intelligence, Software Engineering, Databases, Data Structures and Analysis, Methods of Data Analysis, Algorithms Design and Analysis, Linear Algebra

University of Michigan - Coursera

July – Aug. 2020

Python 3 Programming Specialization

TECHNICAL SKILLS

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

Libraries/Frameworks: Pandas, NumPy, Scikit-Learn, Matplotlib, React.js, Flask, JUnit

Developer Tools: Git, Google Cloud Platform, Jupyter, Google Colab, Maven, Jaspersoft

Databases: Oracle, Firestore, PostgreSQL, MongoDB

Skills: Data Science, Software Engineering, ETL, Cloud Computing, Web Development

EXPERIENCE

Full Stack Developer

May – Aug. 2023 and May – Aug. 2024

Third Eye Solutions Inc.

Mississauga, ON

- Facilitated and carried out application upgrade from Java 8 to 17, ensuring compatibility, leveraging new features, and improving application performance and security
- Successfully upgraded the build automation tool from Ant to Maven, enhancing the efficiency and maintainability of the project build process
- Used Oracle SQL Developer to write queries to maintain Customer Schemas and update Data Models
- Created e-signature application to automate and store customer acceptance of insurance contracts

PROJECTS

Baseball Game Simulation | *R, Markov Chains, plyr*

May – July 2024

- Designed a baseball game simulation model using Markov Chains to predict game outcomes
- Created event-specific probability matrices (e.g., home runs, strikeouts) to model realistic game scenarios

Twitter Trending Topics Data Analysis | *Python, pandas, NumPy, scikit-learn*

Mar. – Apr. 2024

- Utilized Python libraries such as Tweepy and NLTK to extract, clean, and preprocess social media data
- Conducted trend analysis on recent tweets mentioning "Toronto" using Latent Dirichlet Allocation

Galaxies Data Analysis | *R, Linear Regression, Hypothesis Testing*

Jan. – Apr. 2023

- Wrangled and cleaned complex astronomical datasets from Galaxy Zoo and NASA Sloan-Atlas.
- Used hypothesis testing and linear regression to conduct a statistical analysis and create visualizations

HONOURS/AWARDS

- Dean's List Scholar - University of Toronto
- Florence Louisa Cody Memorial Scholarship Winner - University of Toronto
- UofTCTF Ethical Hacking Competition - Top 10 finish

EXTRA-CURRICULARS

- UTSG Computer Science Student Union - University of Toronto
- Computer Science Volunteer Tutor
- Athletics - Intramural Sports Teams - Basketball and Volleyball