

# Akshat Thakur

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## Education

Bachelor of Science: **Statistics** (with a thematic concentration in **Computer Science**) - 2017 to Present

**University of British Columbia, Vancouver**

- Recipient of International Merit Entrance Scholarship (64,000 CAD)
- Awarded Outstanding International Student (14,000 CAD)

## Skills

**Data Science and Analysis** - R (tidyverse, ggplot2, dplyr, tidyr, caret), Python (Pandas, NumPy, SciPy, tensorflow, PyTorch, scikit-learn), SQL, Tableau, PowerBI, JupyterLab/Notebooks, Excel

**Languages** - Java, Python, C/C++, JavaScript/TypeScript

**Web** - Vue, React, HTML, CSS, Swing, JQuery

**Tools/Frameworks** - Git/GitHub, JUnit, Mocha/Chai, RESTful APIs

**Other Relevant Skills** - Natural Language Processing, Sentiment Analysis, Microsoft Office, Google Analytics, UI/UX Design, Agile Development, SDLC, Graphic Design, Communication, Leadership, Creative Problem Solving

## Experience

**Student Data Analyst** - September 2021 to Present

*UBC Centre for Student Involvement & Careers + UBC Student Experience Evaluation & Research*

- Prepared data for surveys essential to informing subsequent departmental programming.
- Conducted descriptive, inferential, and multivariate data analysis by running various statistical scenarios in response to articulated questions of interest from core units.
- Project involved a significant amount of data preparation, text analysis, developing advanced skills in both survey data management and statistical analysis in R, and effectively communicating data analysis results via impactful reports, dashboard and visualizations.

**Undergraduate Teaching Assistant** - September 2019 to April 2020

*UBC Department of Computer Science*

- Taught for CPSC 103, Introduction to Systematic Program Design (systematic problem solving with Python), a course with 2 sections of 285 undergraduate students each.
- Debugged over 10,000 lines of code every week.
- Taught and discussed numerous important computer science fundamentals such as code reviews, data structures, designing functions and programs, and data visualization.

**Web Developer + Digital Marketing Consultant** - April 2018 to January 2019

*Travel Tales*

- Provided website and digital solutions to a Travel and Tourism business with no prior web presence.
- Planned digitization, and developed a website using JavaScript, CSS and HTML5, including e-commerce capability, specialized scripts, and RESTful web-apps built with Java.
- Built, implemented, and updated effective SEO and advertising strategies on a limited budget, increased outreach and viewership by 70%, and obtained 20 additional customers.

## Projects

**Chronic Kidney Disease Prediction Model** - R, tidyverse, ggplot2, Jupyter

- Implemented a prediction model trained on a dataset with 400 instances, containing attributes of a person's biological information to determine if a new patient is likely to have or develop Chronic Kidney Disease.
- The model accurately (over 98% of the time) predicted whether a 'new' patient has Chronic Kidney Disease or not.

**Hotel Database** - SQL, JDBC, Oracle, Swing, Java, JQuery

- Created a SQL database from scratch, implementing functionality for many complex and nested queries.
- Used ER Diagrams, UML diagrams, Relational Schemas, Normalization to plan and create the best possible product.

**Scotiabank Hackathon 2019** - Python, Java

- Won 1st place in the hackathon (out of 15 teams).
- Assumed the role of *Product Manager* and team leader, and utilized product design, innovation, creativity, market research, statistics, tracking progress, delegation to design and implement (in Java and Python) three working proof of concepts for portable, VR-based products to be used for university campus hiring.

## Leadership and Accomplishments

**UBC Graphical and Architectural Design Club** - President (2019 to 2020)

**Jam for Justice UBC Chapter** - Vice President, Communications (2017 to 2018)

**Published Author** of two books (Blossom Fell, Till My Lungs Bleed) and several poems published in international magazines