

# MEHAK WALIA

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## EDUCATION

### University of Regina

Master of Science in Computer Science (4.0/4.0)

Regina, SK

Sep 2019 – Aug 2021

**Relevant Coursework:** Software Engineering, Mobile Computing, Parallel Algorithm, Information Retrieval, Data Analysis from the Internet, Rough Sets and Applications, Cryptography and Data Security, Web Intelligence and E-commerce, Computer Systems Security, and Constraint Programming.

### Guru Nanak Dev University

Bachelor of Technology in Computer Engineering (8.32/10)

Amritsar, India

Aug 2014 – Jun 2018

## EXPERIENCE

### Saskatchewan Healthcare Employees' Pension Plan (SHEPP)

Application Analyst (Co-op)

Regina, SK

May 2020 – Dec 2020

- Developed and updated internal applications using Java, JavaScript, and Oracle Database.
- Created and designed Business, Pension, and IT reports using SQL, HTML, CSS, and XSLT.
- Created stored procedures in PL/SQL to automate recurring jobs and resolved application and website defects raised within the company.

### University of Regina

Graduate Teaching Assistant

Regina, SK

Jan 2020 – Aug 2021

**Courses Taught:** Advanced Data Structures and Algorithm Design, Parallel Algorithm, Mobile Computing, and Computer Networks.

- Graded assignments, research projects, and exams and held regular office hours.

### Center for Development of Advanced Computing (C-DAC)

Data Scientist (Intern)

Mohali, India

Jan 2018 – Aug 2018

- Designed, developed, and evaluated machine learning algorithms and models to optimize products and services.
- Built a real-time Traffic Sign Detection and Recognition System using a Deep Neural Network in TensorFlow.

## PROJECTS

### LearnML ([Website](#)) | Django, Python, MongoDB, KNN, K-means Clustering, Multiple Linear Regression

- Developed an educative platform that introduces its user to Classification, Clustering, and Regression.
- The user can upload a pickle file (pre-trained model) or a CSV dataset and train it by tuning the hyperparameters and check the F1-score and accuracy.

### Startle ([GitHub](#)) | Kotlin, Android Studio

- Built an Android application that pranks other users. The moment the user clicks anywhere, a scary image pops up on the screen accompanied by a spooky sound.

### Sorting Visualizer ([Website](#)) | React, JavaScript ES6, HTML, CSS

- Developed a website that visualizes the mechanics of Merge sort, Bubble sort, Quick sort, and Insertion sort.

### Candy Analysis ([GitHub](#)) | Jupyter Notebook, pandas, scikit-learn, Google Colab

- Designed a logistic regression model that looks at the ingredients of a candy and determines its likability.

## SKILLS

**Languages:** C, C++, Java, Python, JavaScript, Kotlin

**Application Development:** React, Django, Android Studio, Git, Bitbucket

**Databases:** PL/SQL, MySQL, MongoDB, Room Database

**Machine Learning/ AI:** Scikit-learn, NumPy, Matplotlib, Pandas, Selenium

**Design:** MVC, MVVM, Object-oriented Programming, SOLID principles, Simple Factory Pattern, Observer Pattern

## AWARDS AND ACHIEVEMENTS

- **GNDU-Hackathon (2018):** Led a team of 10 members to organize the inter-college annual Hackathon. Increased the participation count by 120% and revenue by 100% compared to 2017's Hackathon.
- **GNDU-Hackathon (2017):** Winner, competed against 100+ participants and won \$500 in prize money.
- **Sunshine Youth Club (NGO, Amritsar) (2017 - 2019):** Volunteer, taught Math to poor children, renovated public schools, and planted trees.