

MEHAK WALIA

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OBJECTIVE

Disciplined, inquisitive, and fastidious computer science graduate student with a strong foundation in programming logic, mathematics, and problem-solving. Seeking to enhance and utilize my development skills to positively contribute to the lives of millions of people.

EDUCATION

University of Regina

Master of Science in Computer Science (specializing in Software Engineering) (4.0/ 4.0)

Regina, SK

Sep 2019 – Aug 2021

Guru Nanak Dev University

Bachelors of Technology in Computer Engineering (8.32/ 10)

Amritsar, India

Aug 2014 – Jun 2018

EXPERIENCE

Saskatchewan Healthcare Pension's Plan (SHEPP)

Regina, SK

Application Analyst (Co-op)

May 2020 – Dec 2020

- Developed various internal applications using **Java**, **JavaScript**, and **Oracle Database**.
- Designed various Business, Pension and IT reports using **SQL**, **HTML**, **CSS**, and **XSLT**.
- Maintained and updated the organization's website.
- Created stored procedures & functions in **PL/SQL**
- Analyzed the application defects upon request from the Operations team.

University of Regina

Regina, SK

Graduate Teaching Assistant

Jan 2020 – Present

- **Courses Taught:** Advanced Data Structures & Algorithm Design; Mobile Computing; Computer Networks; Parallel Computing.
- **Responsibilities:** Mark the assignments, mid-terms, and final exams; conduct weekly doubt sessions.

Center for Development of Advanced Computing (C-DAC)

Mohali, India

Data Scientist, Intern

Jan 2018 – Aug 2018

- Learned to design, develop and evaluate predictive models and algorithms to optimize various products and services.
- Developed a real-time Traffic Sign Detection and Recognition System by implementing neural networks in **TensorFlow**.

PROJECTS

- **Smart Voyage:** In progress, developing a web application using **React**, **Redux**, **Node.js**, and **Firebase** that allows the user to book multiple flights for multiple destinations at a minimum cost. Working on APIs and developed an algorithm, a modification of travelling salesman problem, to generate an order of flights with minimum cost.
- **Learn ML:** (Course Project) Developing an educational website using **Django** and **scikit-learn** that allows the user to upload & train the dataset on different machine learning algorithms. Test the pre-trained or custom models against dynamic values and see the plotted results and accuracy.
- **Mobile Quiz Game:** Developed an interactive quiz game using **Kotlin** in **Android Studio** and **Firebase**. Incorporated MVVM design pattern, SOLID design principles, Live Data, and Reactive Programming.

AWARDS AND ACHIEVEMENTS

GNDU-Hackathon (2018): Organized the inter-college annual hackathon along with a team of 12 members. Created the problem set, and delivered a presentation on how to improve coding skills to 800+ attendants.

GNDU-Hackathon (2016-2017): Winner, 2017 against 300+ participants. Finalist, 2016. Won \$1000 overall in prize money.

Youth Sunshine Club, NGO, Amritsar: Volunteer, taught Math to poor children, renovated public schools & planted trees.

SKILLS

Languages: Java, Python, C/C++, Kotlin, PL/SQL

Front-end: JavaScript, Typescript, HTML5, CSS, Bootstrap

Application Development: React, Redux, Android Studio, Django

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

Design: MVC, MVVM, Factory Method Pattern, Observer Pattern