

# SIIMAR LEEN KAUR

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## Technical Skills

Languages	Python, SQL, C/C++, HTML, CSS, JavaScript, Racket, Haskell
Frameworks	Tensorflow, Keras, Numpy, SciPy, Pandas, SKLearn, Matplotlib, GDB, Node.js
Tools	Linux, Shell, Git, Bash, MongoDB, VSCode, AutoML, AWS, Google Cloud, Azure, Power Apps

## Experience

- Buildspace** *Software Engineer* San Francisco (Remote) • Feb 2024 – Ongoing
- **Preference-based Music Recommendation Platform:** Python, PyTorch, JS, HTML, CSS, React, MongoDB, Tailwind
  - Users **enter prompts to curate playlists** based on Mood, Genre, Artist, Era, & Year and **vote** on playlist & song suitability.
- Hewlett Packard Enterprise** *Project Team Leader, Data Processor* Texas, USA (Remote) • Aug 2022 – Sept 2022
- **Face Mask Detection:** Azure ML & AI, AutoML, Computer Vision, Ethics in AI, Power Automate, Cloud Vision API
  - Trained the model against anomalies using licensed images, **Automated ML, Custom Vision, and Cloud Natural Language AI.**
  - ML Algorithm Applications • Handwritten Digit Classification • Image Classification • OCR
- Nanyang Technological University** *Project Team Leader, Coder* Singapore (Remote) • Jul 2022 – Aug 2022
- **Music Genre Classification:** Kaggle, Data Analytics, Linear Regression Models, SVMs, KNNs, K-means, CNN, Neural Networks
  - Used **Numpy, Pandas, TensorFlow:** analyze **5000 Spotify data entries**, minimize **loss function**, maximize model accuracy (**57%**).
  - Prediction & Classification • Decision Tree Algorithms • Overfitting & Error Performance • Maximum, Soft Margin Classifier

## Projects

- Python Music Recommender System** *Python*
- Implemented using **collaborative filtering, matrix factorization (10 iterations)**, and **Pandas & Implicit.**
  - Explored **Spotify's rec. architecture**, applying **ALS algorithm** on the **Last.fm dataset** with **2,000 users** and **18,000 artists.**
- Alumni Management System** *SQL, Python*
- Optimized **data storage, retrieval, and user authentication.**
- Theme Switcher Social Media Dashboard Challenge** *HTML, CSS, Javascript*
- Implemented a **dynamic theming system**, ensuring a **seamless, accessible, and user-friendly** experience.

## Awards

- Best Project Team** *International Award* Sept 2022
- Received an **LOR** for being the **Best Team** among 8 teams (**60 students**) from across Asia, for both the projects (NTU & HPE).
- Mathematics Excellence Award: India** *University of Waterloo: \$20k* Sept 2023
- Solved a **supplementary university-provided mathematics paper** and achieved **distinguished academic standing** in Math / CS.
- President's Scholarship of Distinction** *University of Waterloo: \$2k* Sept 2023
- 95%+ admission average

## Extra-Curriculars

- Computer Science Club** *Marketing Coordinator, Office Staff, Discord Moderator* University of Waterloo • Sept 2023 – Ongoing
- Utilize social media expertise to engage **UW's largest tech community** on Discord and Instagram.
  - Improve **social media management skills, brainstorming abilities, and time management** skills.
- Combining 2 Cultures Conference 2024** *Outreach Coordinator* University of Waterloo • Jul 2023 – Jan 2024
- Boosted **email engagement, liaised with schools, expanded program participation**, and addressed concerns.
  - Developed **strong communication & collaboration skills.**

## Education

- University of Waterloo** *Bachelor of Computer Science* Sept 2023 – Dec 2027 (Expected)
- **Relevant Coursework:** (Advanced): Designing Functional Programs, Elementary Algorithm Design & Data Abstraction