

HARSH AGRAWAL

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SKILLS

Languages Python, C, C++, Octave, MATLAB, R, Bash, SQL, Java, Racket, Haskell

Technologies Linux, Numpy, Scikit-learn, Keras, Git, Pandas, SQL, Android, NLP, Deep Learning

EXPERIENCE

Nitiraj Engineers Ltd.

March 2019- May 2019

Software Engineering Intern, R&D Department

- Debugged and **improved performance** of program managing employees' and client's database by 15%.
 - Streamlined development and deployment of an **unsupervised learning anomaly detection program** decreasing shipping of faulty products by a third.
 - Assisted in development of **testing software** using C++ in a team of 5 to test engineered products.
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PROJECTS

Attendance Manager *C++, Java, Android, SQL*

- Developed software to take attendance for students in schools in C++.
- Designed an application in a team of 4 to provide the necessary user interface easily to instructors and backup data for the school IT department.
- Software is currently being used for attendance of **more than 10,000 students** during online learning and undergoing trial runs in **6 more schools** in Mumbai.

Spotify CLI *Python, Spotify API*

- Designed software using Spotify's Python API to control Spotify Account from Ubuntu command line.
- Developed a user interface for the command line along with features to **add, remove, like, search** songs in the Spotify account playlists.
- Created a **recommendation engine** for users to input a song name and get a list of similar songs based on artist, popularity, genre, etc.

COVID-19 predictor *Python, Scikit-Learn, Tensorflow*

- Built modules for a **web scraper** to collect data from Government sites about hotspots, population density, economy of regions, etc.
 - Led development in a team of 6 of a **predictor engine** to predict high density regions of COVID-19 based on above data.
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ACHIEVEMENTS

- **Certificate of accomplishment** for Stanford's **Algorithms course** in Coursera (**98%**).
 - **Certificate of accomplishment** for Andrew Ng's **Machine Learning** course (**100%**).
 - Received a **\$15,000 Scholarship** for demonstrating **passion in Computer Science**.
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EDUCATION

University of Waterloo

Sep 2019 - Apr 2024 (expected)

Candidate for Bachelor of Computer Science (2B)

- Cumulative GPA: **93.54%**
- **Excellent Academic Standing** and **Term Dean's Honours List** in terms 1A, 1B, and 2A.
- Took an active part and demonstrated leadership in 'Coffee N Code' and 'Computer Science Club'.