Japnit Kaur Ahuja

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QUALIFICATION HIGHLIGHTS

- Self-motivated fourth-year computer science undergraduate with a strong foundation in core programming, machine learning and full-stack web development.
- Showed initiative by finding an ingenious automation solution for a storm tracking system that resulted in business savings of $100k annually as a summer intern for TELUS.
- Creative problem-solving skills applied to research in machine learning for 4+ years resulting in a published paper co-authored with Dr. Ler from The National University of Singapore.
- Demonstrated excellent community leadership by establishing a non-profit, Go Girl, to teach coding for free to underprivileged girls in India and managing a team of 100 volunteers globally.
- Developed robust interpersonal skills and global awareness through academic experiences in India, Singapore, and Canada, complemented by delivering impactful TEDx talks for Go Girl organization

SKILLS SUMMARY

Languages	Python, Javascript, Java, Flutter, C++, HTML, CSS, SQL, R, MATLAB, Latex
Frameworks	React, NodeJS, Redux, Express, Django, Flask, Scikit, TensorFlow, Pandas, NumPy, PyTorch
Tools/Platforms	Git, MongoDB, PostgreSQL, SQLite, GCP, Firebase, Power BI, Tableau, Toad, Oracle, Linux
Soft Skills:	Self-starter, Time Management, Technical and Non-technical Communication Skills, Team Player

EDUCATION

University of Ontario Institute of Technology — *Oshawa, Canada*
Bachelor of Science in Computer Science with minor in math, CGPA: 4.3/4.3 — *2020 - 2024*

- The only recipient of the Global Leadership Award worth $72,000.
- Earned Faculty Medal for highest GPA in my graduating class.

National Junior College — *Singapore*
GCE A-Level Certificate in Computing, Final Grades: A+ in all subjects — *2018 - 2020*

- One of two Indian recipients of the prestigious merit-based fully funded SIA Youth scholarship worth $80,000 to complete high school in Singapore.

WORK EXPERIENCE

Coursera — *Toronto, Canada*
Software Engineer Intern — *Sept'23 - Dec'23*

- Designed highly-scalable and performant microservices in Java to successfully launch AI grading features.
- Implemented multiple GraphQL and gRPC APIs, seamlessly connecting frontend and backend services with ChatGPT for AI grading functionality for peer graded assignments on Coursera.
- Spearheaded comprehensive unit testing initiatives, ensuring high code quality and reliability, which led to 50% increase in code coverage.

TELUS — *Toronto, Canada*
Software Engineer Intern — *May'22 - Sept'22*

- Developed multiple Python and Google App Scripts solutions for automating processes which saved 100k annually and eliminated 1000 hours of manual work.
- Created a storm tracking system, which provided near real-time access to tableau data with automated reports, resulting in a 70% reduction in time spent on manual updates.

National University of Singapore *Singapore*
Published Student Researcher *Mar' 19 - Nov' 20*

- Devised a new landmarker that captured information at an instance level to facilitate algorithm selection in
- meta-learning under Dr. Daren Ler, the National University of Singapore.
- Cleaned and preprocessed 190 multiclass datasets from the UCI repository to produce 7761 binary datasets using ensemble mechanisms.
- Created machine learning models in Python with libraries such as scikit-learn, scipy and TensorFlow.
- Published in Asian Conference of Machine Learning 2020. [Paper]

COMMUNITY LEADERSHIP

Go Girl Humanitarian Foundation *India*
Founder and Board of Director *Dec'17 - Present*

- Founded Go Girl, a registered non-profit organization at the early age of sixteen with the mission to empower underserved communities, focusing on girls, in India using technology.
- Successfully trained over 2000 girls in Python, HTML, and CSS, using a mobile-friendly curriculum developed in native languages to reach girls from remote and rural areas.
- Increased social media followers to 65k+ on Instagram, using our platform to raise awareness, while also leading a team of 100+ volunteers globally. [Instagram]

PROJECTS

Bardify: Shakespearean Text Prediction [Git]
Python, Neural Networks, PyTorch, Flask

- Designed an effective Recurrent Neural Network Model architecture, including an embedding layer, LSTM layer, dropout layer, and decode layer, producing coherent Shakespearean-style text predictions.
- Gathered and preprocessed data from Romeo and Juliet play, comprising 638 monologues and 3256 unique words

Hack the North 2022: AI Speech Evaluation Tool [Git] [Devpost]
React, Flask, Python, Javascript, TensorFlow, Machine Learning

- Developed a tool in React and Flask utilizing NLP, image processing, and audio analysis to provide instant multimodal feedback for speakers, enhancing their presentation skills in expressions, tone, and content.
- Leveraged TensorFlow and OpenCV to build a model for facial analysis, eye-tracking and sentiment analysis.

Analyzing Netflix: A Data Visualization Project [Git]
R Programming

- Developed R Programming scripts for data analysis and visualization, with notable libraries including dplyr and tidyverse for data manipulation and ggplot2 for constructing graphs.
- Applied statistical techniques and programming skills to uncover patterns and trends in the data.

PUBLICATIONS

Chen, Haofei, Ya Liu, **Japnit Kaur Ahuja**, and Daren Ler. "A Distance-Weighted Class-Homogeneous Neighbourhood Ratio for Algorithm Selection." In *Asian Conference on Machine Learning*, pp. 1-16. PMLR, 2020 [Paper]

AWARDS AND TALKS

TEDx Speaker, Shiv Nadar University, India [Talk]
TEDx Speaker, Ngee Ann Polytechnic, Singapore [Talk]
Adobe Research Women-In-Technology Scholarship 2022