

Yajas Malhotra

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TECHNICAL SKILLS

Languages: Java, Python, SQL, R, HTML/CSS/JavaScript, C/C++

Frameworks/Tools: Flask, Jinja2, Pandas, NLTK, Java SWING, Git, VSCode, JetBrains Suite

Document Creation: LaTeX, Microsoft Office Suite, Markdown

Debugging: JUnit Testing, GDB

EXPERIENCE

Software Developer

November 2021 – Present

UBC Visual Cognition Lab

Vancouver, BC

- Maintain experiment application, helping implement new features and fixing bugs.
- Support researcher and volunteers in developing new conditions and experiments based on the needs of the lab.

Data Science Intern

May 2021 – July 2021

CarDekho

New Delhi, India

- Planned and implemented a review moderation API in Flask, achieving 72% accuracy when compared to manually moderated comments.
- Used Google Analytics, SQL, and R to compile reports about market trends in various vehicle segments during the Covid-19 pandemic.
- Led a team of interns, effectively distributing tasks and following agile practices.

PROJECTS

Solari | *Java, JavaFX, SQLite*

March 2021

- A job portal that allows recruiters to post jobs and select from a pool of volunteers, while allowing volunteers to filter through posted jobs based on the associated metadata.
- Object-oriented programming concepts were used to create a back-end in Java, with a front-end built using JavaFX. User data is stored on a SQLite relational database.

Tracker50 | *Python, Flask, JavaScript, SQLite*

July 2020 - February 2021

- An online flight tracking interface built using the AviationStack REST API.
- The back-end was written in Python, with HTML/CSS/JavaScript used to create the front-end. Usernames and passwords are stored on a SQL database. The website was built using the Flask framework in conjunction with Jinja2.

(TA)sker | *Java, Java SWING*

September 2020 - December 2020

- A course administration management system to be used by faculty/administrative staff to create new courses or manage ongoing ones.
- The backend is written in Java, with the front-end being written using the Java Swing GUI framework. Created schedules are stored as JSON files, and can be transferred to other instances of the application.

COMMUNITY INVOLVEMENT

Founder/Weekly Volunteer

August 2017 – April 2019

Tech Needs: Ghana

Accra, Ghana

- Created and executed lesson plans aimed to teach basic IT to over 60 impoverished students over two years, teaching essential skills such as typing, creating documents, navigating the web, and working with email.
- Liaised with representatives and staff of local underfunded schools to organize weekly lessons for students with ages ranging from 10 to 18.

EDUCATION

University of British Columbia

September 2019 - May 2023

Bachelor of Science: Cognitive Systems

Vancouver, BC