

# Jashandeep Singh

ASPIRING SOFTWARE ENGINEER · COMPUTATIONAL MATHEMATICS MAJOR

226-507-6262 | ✉ jashanbatth4@gmail.com | 🏠 Portfolio | 🌐 j268sing | in jashandeepsingh62

## Education

### University of Waterloo

HONOURS BACHELOR OF COMPUTATIONAL MATHEMATICS, STATISTICS MINOR

Waterloo, ON

Sep. 2017 - Aug. 2022

- Courses: Object-Oriented Programming in C++, Data Structures, Cryptography, Approximation Algorithms, Combinatorics

## Skills

**Languages** Python · Go · C++ · Kotlin · Java · C · Javascript · SQL · R · Bash · HTML/CSS

**Tools** React · NodeJS · Express · Android Studio · PyTorch · MongoDB · Git · PostgreSQL

## Experience

### Freelance Developer - SOCA

WEB DEVELOPER

Remote

June 2022 - Aug 2022

- Built an interactive website in **React** for a cricket league played in Southern Ontario by 16 teams every year
- **Enhanced load time by 15%** by implementing website's state to be managed using **redux** and lazy loading the images
- **Increased traffic by 50%** by rewriting the entire UI using responsive react components and user interactive features

### Petro-Wagon

SOFTWARE ENGINEER

Chandigarh, IN

Aug. 2019 - Sep. 2020

- Developed an Android app for an online fuel delivery service based startup from scratch
- Pioneered company's successful pilot project and beta version of the app gained over **200 B2B** clients in a span of 1 month
- Maintained clean and structured code using **MVVM architecture** to enhance reusability and optimized app performance

### Stark Softwares

TESTING ENGINEER

Beas, IN

May. 2017 - Aug. 2017

- Automated testing that will be performed at all layers of programming interfaces and resolved UI/UX issues
- Effectively wrote clean and reusable code for designing templates for their clients and performed troubleshooting

## Projects

### iRead | Java, SQL, XML 🔄

- Developed a book reading **android app** with a collection of more than 0.5 million books from **Google Books API**
- Designed and implemented the database using SQL, allowing users to create their profile and save favorite quotes within app
- Designed an interactive and consistent UI which displays books in customizable categories like favorites, current readings

### Flower Prediction | Python, Flask, PyTorch 🔄

- Implemented a **Convolutional Neural Network (CNN)** trained on VGG19 model from **PyTorch** that uses image recognition and **supervised machine learning** algorithms to predict the name of the flower
- Trained the model using a dataset of more than 8 thousand images and minimized **overfitting** to achieve a prediction **accuracy of more than 85%**
- Deployed the model into a **web app** to classify the species of flower present in the image uploaded by user

### TODO | React, Express, Node.js 🔄

- Built a full stack web app where users can organize their daily tasks to make the most out of the day consistently
- Users can update a task into 3 categories : To-Do, Done and Doing which helps them stay organized
- Implemented a database for tasks which allows users to examine their past performance which increases productivity

### Game of Chess | C++ 🔄

- Developed in C++, a fully functional game of Chess played using command line
- Implemented human vs computer version of the game using **min-max algorithm** to generate optimal computer moves
- Improved performance and code reusability by using OOP principles and design patterns like **observer, decorator**

## Awards

- President Scholarship of Distinction - \$5000
- All India 903 rank in Math and Science Competition held among high school students