

# Shubhkarán Dhillon

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## Professional Summary

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Software Engineer skilled in C/C++, Python, and Java, with experience in software development, testing, and debugging. Strong knowledge of Linux, networking, OS fundamentals, and cloud platforms like AWS. Effective team collaborator and problem-solver, eager to innovate and deliver high-quality software solutions.

## Education

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### University of Alberta

2020 - 2024

*Bachelor of Science in Computer Science*

*Edmonton, Alberta*

- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering , Computer Networks , Computer and Network Security , Information Retrieval , Operating Systems , UI/UX , Web Development , File and Database Management , App Development , Machine Learning , Artificial Intelligence , Object-Oriented Programming , Statistics and Applications

## Projects

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### QR Code Event Check-In | Java

- Developed an intuitive Android application for event management, enabling attendees to check in via QR codes.
- The system facilitates real-time attendance tracking, event detail management, and notification distribution to participants.
- Integrated Google API for location tracking in the QR Check-In app, enabling precise, real-time location services that enhanced the app's utility and user satisfaction.
- Contributed for designing the user interface (UI) of the QR Check-In app, focusing on user-centric design principles to ensure intuitive navigation and a seamless user experience.
- Designed the schema in Firebase Database for storing users information.

### CODETWEET | SQL, Python

- Led a collaborative Python project utilizing SQLite for a secure command line interface.
- Achievements include implementing user authentication, tweet interactions, and search functionalities.
- Emphasized SQL integration, security against SQL injections, and robust error handling for user-friendly experience.

### Library Management System | Java, JavaScript, SQL

- Developed a library management system to manage books, members, and borrowing activities.
- Implemented functionalities for adding, updating, deleting, and searching for books in the library's collection.
- Created member management features including registration, information updates, and viewing member details.
- Built a borrowing system to track book borrowing and return activities, with due dates and overdue notifications.

### FEELFLOW | Python, TensorFlow, Django, React.js

- Contributed to NeuroTech Hackathon, creating FeelFlow—an innovative emotion regulation app.
- Utilizes computer vision and optional Muse2 integration, powered by ChatGPT API for personalized responses based on real-time emotional analysis
- Offers a holistic approach to emotional support, merging AI, biometric data, and user interaction for enhanced well-being.

## Technical Skills

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**Languages:** Python, Java, XML, C/C++, HTML, CSS , Javascript/TypeScript, SQL, NoSQL, R

**Technologies:** React.js, Node.js, Django, TensorFlow, Android SDK, Node.js, MongoDB, GitHub, Git, Wireshark, Firebase, AWS, Nmap, Snort

**Concepts:** Software Engineering, Data Structures, Algorithms, Object-Oriented Design, Database Management, Web Development, Machine Learning, Agile, Networking, Linux, Embedded Development, Cybersecurity

## Certifications

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- AWS Certified Cloud Practitioner
- Intro to the Tools and Techniques of Data Science - IBM
- Data Science Tools - IBM