

Sukhraj Purewal

sukhrajpurewal14@gmail.com | [website:- Sukhraj Profolio](#) | [linkedin:- Sukhraj Purewal](#) | [github:- sus194](#)

EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science

Burnaby, B.C.

2021 - 2025

Relevant Coursework: Intro to Software Engineering, Web-Development and Data Structures and Algorithms Analysis

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, Typescript

Web Development: Angular, NEXT.JS, React, Node.js, Express JS, Google Cloud, Azure, ASP.NET Core

Databases: SQL, PostgreSQL, MongoDB

Technologies/Developer Tools: Git, GitHub, Docker, Linux, NumPy, TensorFlow, Keras

EXPERIENCE

MineSense Technologies Ltd. — Python, Selenium, Linux

Sept 2023 – Present

System Integration And Test Engineer

Vancouver. BC

- Collaborate with multidisciplinary teams (Electrical, Controls, Mechanical, Software) to enhance product quality for mining environments.
- Engage with GeoScientists, Data Engineers, and Field Services for a holistic approach to product development.
- Provide vital support for system integration and testing, including commissioning software components.
- Execute comprehensive test plans, deliver feedback, and implement test automation for UI validation.

PROJECTS

Expense Manager | *Microsoft Azure, ASP.NET MVC, HTML5, C#, SQL*

Jul. 2023

- * The Expense Manager Web App is a user-friendly application designed for efficient expense management and recording. It allows users to track, analyze, and visualize their expenses.
- * The app uses ASP.NET Core MVC and Entity Framework Core for database management. It's hosted on Microsoft Azure App Services for easy deployment and scalability.
- * The app features an intuitive dashboard and search functionality for easy expense tracking.
- * It offers different visualization options and generates expense reports based on trends.

StudyBuddy | *React, Express JS, MongoDB, Apache, Google Maps API*

Mar. 2023

- * Created a student-focused web app for studying and peer connections.
- * Constructed an Express JS server with a React front-end and MongoDB storage for login/sign up and chat.
- * Enabled real-time communication between users with chat rooms and account creation.
- * Implemented web socket feature for updating meeting locations and times in real-time.
- * Utilized Google Maps API to display an interactive map showcasing nearby users.

AI Discord Bot | *Python, Discord API, PyQt5, multiprocessing/threading application*

Jan. 2023

- * Developed a multifunctional Discord bot using APIs and libraries for weather, stocks, chess, and math.
- * Utilized OpenAI, Stockfish engine, Weather/Stock APIs, and SymPy library in Python for the development.
- * Integrated PyQt5 framework with Discord API to enable viewing of current chess game status on Discord.
- * Optimized bot performance by implementing multiprocessing and threading to handle multiple user requests efficiently.

Knight run | *Java, Maven, OOP, Software Design Patterns*

Oct. 2022

- * Designed a challenging maze-solving game featuring dynamic obstacles and enemies.
- * Implemented Factory method design pattern for creating game components, including enemies, main player, and maze walls.
- * Utilized Java libraries like java.awt and javax.swing to develop the game's UI and implement collision detection and movement logic.
- * Created a custom-made design pattern to program enemy movement behaviour while chasing the player knight through the maze.