SUKHDEEP SINGH

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EDUCATION

University of British Columbia   **Vancouver, BC**

Bachelor of Science | Major in Computer Science | GPA: 3.6   *09/2019 - 05/2023*

- **Relevant Coursework:** Advanced Algorithms Design and analysis, Machine Learning & Data Mining, Computer Vision, Advanced Relational and non-relational Databases, Cloud Computing, Operating Systems, Computer Networking, Advanced Software Engineering, Intelligent Systems, and Artificial Intelligence Applications.

PROFESSIONAL EXPERIENCE

Vitrana   **Noida, India**

Associate Software Developer   *12/2023 - Present*

- Developed innovative healthcare solutions at Vitrana as a Software Developer, utilizing Angular for front-end interfaces and Java Spring Boot for back-end functionalities.
- Integrated backend and frontend components, ensuring smooth communication and data flow between Angular-based frontends and Spring Boot backends.
- Created and maintained SQL and NoSQL databases, optimizing queries and data structures to ensure high performance. Developed database schemas and data migration scripts for seamless application upgrades.

Wefley Tech Lab   **Vancouver,BC**

Full Stack Developer   *11/2022-10/2023*

- Successfully delivered and managed multiple full-stack SaaS applications (E-Commerce stores, CRM, LMS, IoT Systems) for 10+ clients, integrating Angular, React, NodeJS, and Python.
- Contributed to diverse AI/ML projects, handling data analysis, model development, and deployment. Proficient in API development, ensuring scalable web applications in a continuous deployment environment.

KiwiTech   **Noida, India**

Software Developer Intern   *05/2022 - 09/2022*

- Contributed to a global custom software development company, specializing in end-to-end technology services worldwide.
- Proficiently developed scalable React.js, Node.js, and Express.js code for web applications, with active involvement in AI and ML projects, implementing NLP and computer vision models to achieve project objectives.

LEADERSHIP EXPERIENCE

Full Stack Development Project   **Vancouver, BC**

Project Manager & Software Architect   *09/2022 - 12/2022*

- Led a 6-member team to deliver 2 full-stack apps in 4 months, implementing CI/CD processes for deployment
- Developed a user-friendly DSL to create comprehensive unit tests for frontend website testing using ANTLR
- Implemented a memory leak detector in C utilizing custom memory management and advanced data structures

TECHNICAL PROJECTS

LLM-Controlled Smart Lighting via MCP Server | *Python, OpenAI, MCP Protocol, MQTT, IoT | 01/2025–02/2025*

- Built an LLM-powered system to interpret natural language commands for controlling smart lights via an MCP server.
- Enabled real-time light control (on/off, dimming, color) and scheduling with feedback from the MCP server.
- Created a user-friendly interface for voice/text-based IoT control without manual configuration.

Investment News Analyzer | *Multi-Agent Architecture, Python, Financial News APIs*   *02/2025 – 04/2025*

- Built a multi-agent system using LLMs to fetch, analyze, and summarize financial news for user-defined portfolios.
- Utilized LLM-powered agents to autonomously retrieve and evaluate news articles, offering real-time, concise summaries for informed investment decisions.