



Jusnoor Kaur Sachdeva

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Professional Summary

Results-driven Computer Science graduate from the University of British Columbia, with experience in software development, supply chain analytics, and cross-functional collaboration. Proficient in modern technologies and passionate about building AI-enabled solutions with strong user experience. Currently seeking opportunities to contribute meaningfully to innovative teams.

Education

University of British Columbia, Irving K. Barber Faculty of Science

Bachelor of Science, 2020 – 2024

- Treasurer at UBCO Girls in Tech (ACM-W UBCO Chapter)

Delhi Public School, Gurugram, India

High School, 2017 – 2020

- First Division - Top 1% of graduating class of 2020
- Blue Blazer Award for highest academic and extracurricular excellence
- Outstanding Dance Award at the International Dance and Music Festival

Technical Skills

Languages: Java, Python, R, SQL, PHP, JavaScript, XML, C++

Developer Tools: Git, Figma, VS Code, CSS, HTML, Eclipse

Libraries & Frameworks: React, Tailwind CSS, OpenCV, JWT, YOLO

Data Analytics/Visualization: Excel, Tableau, Pandas, NumPy, Matplotlib, Seaborn

Tools & CRM: AWS, Zendesk, HubSpot, JIRA

Others: Office 365

Soft Skills: Innovative, Collaborative, Strong Communication, Leadership, Critical Thinking, Detail-Oriented

Professional Experience

North West Carrying Company LLP – Delhi, India

Supply Chain Analyst - Student Intern (May 2024 – Sept 2024)

- Used data tools (SAP/Oracle ERP) to analyze inventory, shipments, and supplier metrics
- Reported KPIs and suggested improvements for supply chain performance

Treasurer – UBCO Girls in Tech (ACM-W UBCO Chapter)

Leadership Role (2022 – 2023)

- Managed financial planning and budgeting for events and activities.
- Coordinated fundraising efforts and worked with university stakeholders to promote women in tech.
- Enhanced organizational impact by streamlining financial processes.

GAOTek Inc. – Delhi, India

Software Development - Student Intern (Jan 2022 – Mar 2022)

- Worked with Python, JavaScript, and Java in a collaborative Agile environment
- Designed and enhanced software per UX and business requirements with Scrum teams

OnActuate – Delhi, India

Student Summer Intern (June 2018 – Aug 2018)

- Collaborated on web app performance, tested features using Jira, Confluence, and Slack
- Used SQL for data entry and cleaning; documented bug resolutions

Projects

GradeFalcon – AI-Powered Optical Marking System

Tech Stack: React, Express.js, PostgreSQL, Docker, OpenCV, Flask

- Built React-based OMR system reducing grading time by 95%
- Designed 30+ pages and 35 reusable components with Tailwind CSS
- Developed 50+ backend functions and REST APIs for grading and exam workflows
- Integrated secure Auth0 RBAC login and optimized file handling via Docker volumes

Solving the Fat Finger Problem Using an Offset Touch and Magnification Technique

Tech Stack: Unity, C#, AR Foundation, Experimental UI Design, SPSS

- Designed HCI prototype solving touch inaccuracy with offset and zoom features
- Conducted a user study and statistical analysis validating selection improvements

AI-Powered Mental Health & Productivity Tracker

Tech Stack: React/Streamlit, Node.js, Firebase, OpenAI GPT, HuggingFace Transformers, Plotly

- Built an AI-driven platform for mood tracking and productivity analysis with personalized recommendations.
- Integrated chatbot-based daily sentiment check-ins using GPT/HuggingFace APIs and optional voice input.
- Correlated productivity metrics (calendar, screen time, app usage) with mood trends to identify burnout signals.
- Designed interactive dashboards in Plotly/Streamlit to visualize emotional cycles and focus

patterns.

- Implemented privacy-first data handling with user control over tracking and sharing.

VisionFlow Suite — Multi-Stream Object Detection API & Evaluation

Tech Stack: Python, FastAPI, WebSockets, OpenCV, scikit-learn, TensorFlow/PyTorch, YOLOv7, Pandas, Matplotlib/Plotly

- Developed a FastAPI-based service for managing multiple live video streams (webcam or file) with real-time object detection.
- Built WebSocket endpoints for streaming frames, enabling scalable multi-stream monitoring.
- Implemented image classification pipelines with CNN, VGG16, ResNet, Inception, and SVM, trained on public datasets.
- Created evaluation toolkit for object detection models with IoU, precision, recall, AP, and mAP metrics.
- Generated visualizations (PR curves, confusion matrices) and CSV reports to compare performance across models.

Volunteer Work

Teacher at Harmony Homes (India) – Guided children with learning disabilities in developing confidence and skills

Interests & Languages

Interests: Passionate Dancer, Trained in Indian Dance Forms

Languages: English, Hindi, Punjabi