

Angad Dhillon

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EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Science, Combined Major in **Computer Science** and Biology, 4th year

May 2027

Courses: Data Structures and Algorithms, Algorithm Design and Analysis, Software Construction, Computer Systems, Software Architecture

TECHNICAL SKILLS

Languages: | Java | C | C++ | C# | R | SQL | Swift | Assembly | Python | CSS | HTML | JavaScript | TypeScript |

Frameworks: | JUnit / unittest | Firebase | ReactJS | NodeJS | Docker | Swing | Tailwind | Next.js | Qt6 | OpenCV | CMake |

Developer Tools: | Git / GitHub | Android Studio | GitLab CI / CD | Linux | Firestore | Jira | MATLAB | Jupyter | Power BI | GDB | Catch2 |

WORK EXPERIENCE

Software Engineer

May 2025 – Present

PIT Solutions

Seattle, WA

- Developed client-side sales intelligence tool using **Next.js 14 (React, TypeScript)**, **Tailwind CSS**, **Recharts**, and **Leaflet** to merge and analyze large contact and company datasets, streamlining lead generation enabling sales teams to identify qualified leads **3x** faster.
- Engineered interactive dashboards** and geo-visual reports using both **Power BI** and custom visual components, highlighting high-potential B2B clients by region, company size, and decision-maker roles for targeted outreach.
- Collaborated with Sales and Marketing to analyze thousands of records, surfaced actionable insights, and presented findings to C-suite executives, while ensuring data accuracy and clean, **maintainable code** through thorough **testing** and best development practices.

Data Analyst

Sept 2023 – April 2024

UBC Faculty of Medicine

Vancouver, BC

- Developed automated data pipelines using **Python**, **SQL**, and **MATLAB**, optimizing the analysis of 4,000+ experimental data entries, which accelerated research workflows by **30%**.
- Designed custom statistical models and visualizations in **R** and **MATLAB** to uncover protein distribution patterns across five mouse organs, informing key research decisions.
- Built **data processing scripts** to clean, transform, and analyze large datasets, improving data accuracy and reproducibility, leading to more reliable experimental conclusions.

PROJECTS

AutoDash OS Embedded Infotainment System | C++, Qt6, OpenCV, CMake, Linux Embedded Concepts, BlueZ, ALSA, I2C Simulation

- Built an automotive infotainment system using C++ with Qt6 framework, implementing four core modules (Media Player, Bluetooth, Climate Control, Rear Camera) with real-time sensor simulation and hardware abstraction for embedded systems development.
- Developed the system architecture using Qt6 (Core, Widgets, Multimedia, Network modules) for cross-platform UI, integrated OpenCV for webcam feed processing and computer vision features, and implemented thread-safe logging with file/console output and comprehensive error handling using GDB debugging integration.
- Engineered low-level interface simulations including I2C sensor data generation, USB device monitoring with QFileSystemWatcher, Bluetooth device discovery and pairing using BlueZ concepts, and ALSA audio integration, while implementing JSON-based configuration persistence and unit testing with Catch2 framework.

MatchIt! Sales Intelligence Dashboard | Next.js 14, React 18, TypeScript, Tailwind CSS, Recharts, Leaflet, PapaParse, OpenAI API

- Built a sales intelligence platform, implementing real-time data processing to merge company and people datasets to identify decision-makers and implemented custom scoring algorithms for company prioritization.
- Developed the front-end with Next.js 14 (App Router) and React 18, styled responsive UI components using Tailwind CSS, and managed type safety and data models with TypeScript.
- Implemented CSV parsing with PapaParse, visualized analytics using Recharts and Leaflet.js + OpenStreetMap for geographic mapping with clustering algorithms, and integrated a GPT-powered AI agent to answer user questions about companies in the dataset.

