

# Jasmeet Brar

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## PROFESSIONAL EXPERIENCE

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### AMD

Senior Software Engineer - Markham, ON

June 2024 - Present

- Lead a four-engineer team building a full-stack GitHub app that underpins the firm's CI/CD loop, bootstrapping core infrastructure from scratch.
- Stack: **NextJS**, **NestJS**, **Nx**, **DevContainers**; shipped to production on bare metal via **Docker**, **Traefik**, **GitHub Actions**, **Harbor**.
- Configured APU debug builds and root-caused driver issues in **C**, **C++**.

Software Engineer - Markham, ON

April 2022 - June 2024

- Debugged kernel-mode driver crashes in **C/C++**.
- Drove APU emulation testing and co-authored a GitHub app that automated commit porting/scheduling, saving many hours of manual merges.
- Wrote a 50-page design document detailing architecture and scalability; adopted as a reference by 15+ stakeholders across hardware and software teams.

### Jarvis Consulting Group

Data Engineer - Toronto, Canada

March 2021 - April 2022

- Architected and delivered a containerised trading platform for real-time quotes and account management using **Java**, **Spring Boot**, **Postgres**, and **Docker**.
- Segmented 2M+ customer transactions with an RFM model built in **Python** (**Pandas**, **Jupyter Notebook**), enabling data-driven marketing campaigns.

### Manulife

Data Engineer - Toronto, Canada

October 2021 - February 2022

- Designed a data-quality pipeline in **Python** and **T-SQL** that ingests ETL logs into a slowly-changing-dimension audit store, giving teams end-to-end traceability.
- Refactored a reporting library in **Python** to consume backend APIs instead of direct DB polling, cutting average query latency by 4–5× and reducing warehouse load.

### Finneo

Software Developer - Mississauga, ON

June 2019 - August 2019

- Shipped core features for a green-field real-estate portal with **ReactJS**, meeting a 10-week launch deadline.
- Added interactive visualizations with **Chart.js** graphs and **Google Maps API** to surface condominium pricing and amenities.
- Worked directly with the CEO and a distributed team, demoing progress in weekly Agile sprints.

### Amhil North America

Systems Analyst - Mississauga, ON

May 2018 - August 2018

- Automated daily Outlook workflows with **VBA / VBScript**.
- Authored and optimized **T-SQL** queries for production reporting alongside the lead systems programmer.
- Provided Tier-1 support for 50+ end users, troubleshooting software and hardware issues to maintain zero downtime operations.

## EDUCATION

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### University of Toronto

September 2015 - April 2020

HONOURS BACHELOR OF SCIENCE IN COMPUTER SCIENCE — HIGH DISTINCTION

GPA: 3.63 / 4.0

Computer Science Specialist • Mathematics Minor

*Key Coursework:* Machine Learning · Deep Learning · NLP · AI · Compilers · Databases · Security · Parallel Programming  
Algorithms · Software Testing · Distributed Systems · Operating Systems · Networks

## TECHNICAL SKILLS

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**Languages:** Java, Python, TypeScript, JavaScript, SQL, C, C++

**Frameworks/Libraries:** NextJS, NestJS, Nx, React, Spring Boot, PyTorch, CUDA, NumPy, SciPy, Matplotlib

**DevOps & Cloud:** Docker, Kubernetes, AWS, GCP, Traefik, Git, Linux

**Data & Storage:** PostgreSQL, MongoDB, Snowflake, Redis, Hadoop, Hive, Spark