

## Contact

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(LinkedIn)  
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## Top Skills

Software Development  
Python  
Java

## Languages

English (Professional Working)  
Hindi (Native or Bilingual)  
Punjabi (Native or Bilingual)

## Certifications

Ontario Certified Teacher  
Software Architecture: Domain-Driven Design

## Honors-Awards

Dean's List  
Speaker at University of Toronto  
Scarborough March Applicant  
Showcase  
Speaker at University of Toronto  
Scarborough Fall Campus Day  
Panelist Speaker for the Co-op  
Conference  
Dean's List

# Kanwar Gill

Engineering (SWE) | Teaching (OCT)  
Toronto, Ontario, Canada

## Summary

With over seven years of experience in software engineering, Kanwar Gill is a highly skilled and versatile Full-Stack Developer with a strong focus on e-commerce and banking domains. At SSENSE, as a Software Engineer on the Post-Purchase Experience team, Kanwar designed, developed, and deployed scalable and secure microservices and serverless applications. His technical expertise includes TypeScript, Node.js, Vue.js, PHP, JavaScript, Docker, Kubernetes, and AWS.

Kanwar also holds a Master's degree in Teaching with a focus on Mathematics and Computer Science from the Ontario Institute for Studies in Education (OISE). As an Ontario Certified Teacher (OCT), he has taught computer science courses at the Global Prodigy Academy, utilizing Code.org's curriculum and Google Classrooms. Kanwar is driven by a passion for sharing his knowledge and skills, inspiring the next generation of programmers and problem-solvers.

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## Experience

### Instacart

#### Software Engineer

July 2024 - Present (1 year 6 months)

Toronto, ON

- Part of the catalog team overseeing the management of over 2.5 billion items, with a third changing daily, for both the storefront and shopper apps.
- Partner with 600+ retailers to ensure high-quality data collection and optimization.
- Utilize advanced data processing systems to efficiently address lineage and throughput challenges.
- Enhance data quality and functionality through innovative self-healing and sophisticated data attribute systems.

### SSENSE

3 years 7 months

Software Engineer III

February 2022 - July 2024 (2 years 6 months)

Software Engineer II

January 2021 - February 2022 (1 year 2 months)

Part of the Post-Checkout Experience domain.

Tech Stack: TypeScript, Node, Vue, PHP, Javascript, Python

Architecture: Docker, Kubernetes, AWS (SAM, CFN, CloudWatch, Lambda, SNS/SQS, Step Functions, APIGW), Redis, Serverless

CI/CD: Jenkins, SonarQube

Database: MongoDB, PostgreSQL, MySQL, DynamoDB, DocumentDB

Tools: Slack, VSCode, Git, Github, GSuite, LucidChart, JIRA, Confluence, Trello, Parabol, Datadog, Sequel Ace, Robo 3T, Postman, DBVisualizer, LaunchDarkly

University of Toronto

Computer Science Teaching Assistant

September 2018 - December 2020 (2 years 4 months)

Toronto, Canada Area

Course Portfolio:

- Principles of Programming Languages (CSCC24) x2
- Software Tools and Systems Programming (CSCB09) x2
- Discrete Mathematics (CSCA67)
- Introduction to Numerical Algorithms for Computational Mathematics (CSCC37) x2
- Introduction to Computer Science (CSC148)
- Introduction to Computer Science II (CSCA48)
- Linear Algebra I (MATA23)
- Linear Algebra II (MATB24)

Ontario Institute for Studies in Education of the University of Toronto

Graduate Research Assistant

September 2018 - April 2019 (8 months)

Toronto, Canada Area

- Provided technical leadership on a web application (Talk2Me Jr.) used for the reading assessment of elementary students.
- Facilitated meetings with the research team as well as the technical team by highlighting the necessary technical requirements.

- Excellent communication skills demonstrated by working with the Education Commons (EC) team of OISE to port the webserver over from the Computer Science department.
- Exhibited the ability to learn quickly by understanding the technical side of the application.
- Worked in a mentorship role by helping fellow researchers understand the web application through meetings, documentation, and e-mails.

## TD

### Software Engineer | DevOps Specialist

July 2016 - August 2018 (2 years 2 months)

Toronto, Canada Area

- DevOps expert in the Delivery Shared Services channel of the bank developing an internal web application for projects forecasting. Tech stack: .NET middleware, ReactJS front-end, SQL Server back-end.
- Built the CI/CD pipeline from the ground up resulting in a push to deploy time of under five minutes; a time savings of more than 70%.
- Developed Python and Bash automation scripts for Bitbucket project administration using REST APIs.
- Provided consistent CI/CD support to the front-end and back-end developers by troubleshooting any build issues and streamlining the process.
- Implemented a brand new feature using AngularJS for the Order Management Tool application in Wealth Technology.
- Demonstrated attention to detail by providing highly scalable and well-tested solutions.
- Provided technical/analytical leadership of components being developed for various projects within the Anti-Money Laundering (AML) portfolio.
- Documented the scenario code for more than two hundred active scenarios for the business.
- Assisted in developing high-quality solutions for projects consistent with project objectives and client requirements following technology standards.
- Participated in the TD Hackathon and was selected to present the idea to the Retail Distribution Operating Committee (RDOC) in Waterloo.
- Developed excellent teamwork skills by collaborating with the developers and the QAs to deliver fast-paced solutions.

## University of Toronto

### Computer Science Teaching Assistant

May 2015 - April 2016 (1 year)

Toronto, Ontario, Canada

#### Course Portfolio:

- Operating Systems (CSCC69) x2
- Introduction to Numerical Algorithms for Computational Mathematics (CSCC37)
- Principles of Programming Languages (CSC324) [Mississauga Campus]
- Introduction to Databases (CSCC43)

#### Natural Sciences and Engineering Research Council of Canada (NSERC)

USRA Researcher | Distributed Systems, SysNet @ UofT

May 2015 - August 2015 (4 months)

Toronto, Canada Area

NSERC USRA Researcher working on a project pertaining to Software Defined Networking in the Systems and Networks group at University of Toronto.

Worked with Professor Bianca Schroeder and grad student Ioan Stefanovici.

Delivered a research presentation to fellow summer researchers. The title of the presentation was Characterizing the Caching Behavior of Distributed Cloud Applications.

#### IBM

Software Developer

May 2013 - April 2015 (2 years)

Markham, Canada

- Provided support to the DB2 Information Development Infrastructure team through coordination with the testers in Translation Service Centers (TSC) from around the world.
- Acknowledged for outstanding organizational and time-management skills by monitoring questions related to the different releases of DB2 during the DVT (Document Verification Testing) round including timely creation and uploading of the test cases to the staging server.
- Demonstrated quick learning skills pertaining to technologies like PHP, Perl and applied them to fix any problem reports or requirements opened by the ID department.
- Data mining skills strengthened through the creation of reports in Cognos Report Studio reflecting the percent complete for each of the different releases and deliverable types.
- Developed an understanding of rapid application development framework CakePHP; successfully applied it in an internal tool for information center builds.

- Self-learned jQuery plugins such as Data Tables and SlickGrid to be used in the information development tracking tool for the information developers.
- Implemented an appealing UI using jQuery UI on the existing internal pages for information center translation increasing the render time by more than 90%; commended by the team members.
- Member of the Future Blue student community and the toastmasters club of IBM.
- Mentored a colleague with the knowledge transfer.

## CIBC

### Information Security Specialist

September 2012 - December 2012 (4 months)

- Provided support to the Information Security team through research, investigation, and analysis of industry cyber threats.
- Commended for providing realistic feedback to the SIEM correlation framework for the Malware project resulting in a completely new framework.
- Recognized for outstanding analytical and problem-solving skills shown by developing a fully tested and automated security model to help categorize data breach events.
- Self-learned technologies like JavaScript, JSON, AJAX, J2EE, JSP, and JavaBeans and successfully applied them in the vulnerability results analysis from the automated code scanning tool HP Fortify.
- Research skills enhanced by writing a paper on password strength and pass phrases highlighting the industry trends around the two, and their applicability within the password policy.

## Environment and Climate Change Canada

### Database Developer

January 2012 - April 2012 (4 months)

- Noted for excellent time-management, communication, and teamwork skills.
- Provided support regarding database and application issues through the implementation of JavaScript code addressing bulk upload of scanned images to the National Climate Database.
- Demonstrated excellent writing skills by developing working technical documentation for NAS, Image and CHAD databases.
- Problem-solving skills enhanced by developing numerous SQL queries effectively addressing client requirements.

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## Education

University of Toronto

Bachelor's Degree, Computer Science Specialist Co-op

Ontario Institute for Studies in Education of the University of Toronto

Master's degree, Teaching - Mathematics and Computer Science