

KANWAR GILL

[GitHub](#) | [LinkedIn](#) | contact@kanwargill.ca

EDUCATION

UNIVERSITY
OF TORONTOMASTER OF TEACHING
2018 - 2020

Ontario Certified Teacher
Action Research Paper:
 Addressing Math Anxiety in
 Elementary Classrooms

HBSc. COMPUTER
SCIENCE SPECIALIST
2010 - 2016

Graduated with High
 Distinction

Cum. GPA: 3.54 /4.0

Dean's List (2nd, 3rd, & 4th
 Year)

SKILLS

PROGRAMMING

Python | Bash | C | TypeScript
 | JavaScript | Vue.js |
 HTML/CSS | PHP | Node.js |
 AWS (Lambda, SNS/SQS,
 Step Functions, API Gateway,
 CloudFormation, SAM)

TOOLS

VS Code | Git | Postman |
 Datadog | LaunchDarkly |
 Jenkins | SonarQube |
 Lucidchart | Confluence |
 JIRA

DATABASES

MySQL | MongoDB | AWS
 DocumentDB | AWS
 DynamoDB | PostgreSQL

OPERATING SYSTEMS

macOS | Linux | Windows

COURSEWORK

Engineering Large Software
 Systems
 Operating Systems (Teaching
 Asst 2x)
 Software Tools and Systems
 Programming (Teaching Asst 2x)
 Functional Programming
 (Teaching Asst 3x)
 Intro to Computer Science
 (Teaching Asst 2x)

WORK EXPERIENCE

SSENSE | SOFTWARE ENGINEER

Jan 2021 – Present | Montreal, QC (Remote)

- Spearheaded the development of a new customer Returns system using TypeScript and the Serverless framework (APIGW, Lambdas, Step Functions, SNS/SQS), employing Domain-Driven Design to significantly enhance system efficiency and scalability
- Led the design and implementation of return eligibility feature, coordinating cross-functional teams, developing C4 and BPMN diagrams, and creating optimized MongoDB queries and AWS-based API endpoints.
- Provided strategic technical leadership for return eligibility feature, focusing on efficient system performance and scalable AWS infrastructure solutions.
- Orchestrated a major migration of 6 MM records from MySQL and PostgreSQL to AWS DocumentDB, reducing migration time by 87% and demonstrating database management proficiency.
- Mentored and coached new developers, enhancing their technical skills and fostering a culture of continuous learning and growth within the team.
- Crafted and presented detailed BPMN, C4, and Data Flow architecture designs for the Returns system, integrating Serverless and Microservice architectures.
- Conducted engineering department-wide daily standups with more than 50 attendees, effectively communicating technical changes and ensuring team alignment with project developments.

UNIVERSITY OF TORONTO | GRADUATE TEACHING ASSISTANT

Sept 2018 – Aug 2020 | Toronto, ON

- Revolutionized the marking process for C coding assignments by creating a Bash script, cutting marking time by over 80% and boosting course efficiency.
- Showcased communication and leadership by leading tutorials in Discrete Math, Functional Programming, Numerical Analysis, and Linear Algebra, effectively conveying complex concepts and aiding students in problem-solving.
- Enhanced student success by providing personalized feedback and support, leading to improved academic performance and greater student engagement.
- Excelled in organizational skills through the creation and management of course materials, including assignments, exams, and tutorials, earning high praise from students and instructors.

TD BANK FINANCIAL GROUP | SOFTWARE ENGINEER

July 2016 – Aug 2018 | Toronto, ON

- Led the creation of a CI/CD pipeline, reducing push-to-deploy time to under five minutes and saving over 70% in time, highlighting DevOps expertise.
- Developed a new feature with AngularJS for an internal tool, showcasing innovative problem-solving abilities.
- Authored Python and Bash automation scripts using REST APIs for Bitbucket management, demonstrating proficiency in scripting and API integration.
- Delivered scalable and well-tested solutions, demonstrating meticulous attention to detail and commitment to project success and stakeholder satisfaction.
- Provided technical and analytical leadership for Anti-Money Laundering (AML) project components, reflecting strong leadership qualities.
- Contributed to developing high-quality project solutions, adhering to project objectives and client requirements, and upholding standards of quality and excellence.
- Enhanced teamwork by adopting the AGILE methodology and collaborating effectively with senior developers and QA teams, showcasing strong communication and team skills.

KANWAR GILL

[GitHub](#) | [LinkedIn](#) | contact@kanwargill.ca

UNIVERSITY OF TORONTO | UNDERGRADUATE TEACHING ASSISTANT

Sept 2014 – April 2016 | Toronto, ON

- Led tutorials for Numerical Analysis, Functional Programming, and Operating Systems, enhancing student learning through effective facilitation and problem-solving.
- Fostered improved academic performance and engagement by providing personalized feedback and support, and maintaining strong communication with professors and students.
- Exhibited strong organizational and time management skills in scheduling grading, tutorial preparation, and prompt email responses.
- Earned positive feedback from students and instructors for meticulously creating and managing course materials, demonstrating a commitment to academic excellence.

IBM | SOFTWARE DEVELOPER INTERN

May 2013 – Aug 2014 | Markham, ON

- Enhanced user experience of internal pages by implementing jQuery UI, achieving over 90% reduction in render time and earning team commendations.
- Developed an internal tool for information center builds using CakePHP, showcasing rapid skill acquisition and application in web application frameworks.
- Independently learned and integrated jQuery plugins like DataTables and SlickGrid into a tracking tool, demonstrating a commitment to ongoing learning.
- Quickly mastered PHP, Perl, and other technologies for resolving ID department issues, highlighting a knack for solving complex technical challenges.
- Created detailed reports in Cognos Report Studio, effectively analyzing and communicating insights on release progress and deliverables.

HONOURS & AWARDS

- Participant of the TD TechJam (Feb 2017). Selected to present the [idea](#) to the TD Retail Distribution Operating Committee (RDOC) in Waterloo (May 2017).
- Computer Science Speaker at the March Applicant Showcase (March 2016).
- NSERC Undergraduate Summer Research Award, \$4500, 2015; See research presentation [here](#).
- President of Co-op Students' Association (2014-15); Won \$10,000 in funding as part of the UTSC 50th Anniversary Students' Fund.
- Co-Founder and VP Membership of UTSC Toastmasters (2014-15).
- University of Toronto Scholar, \$5000, 2010; Grade 12 average of more than 95%.
- University of Toronto Entrance Scholarship, \$3000, 2010.