

# Krutarth H. Patel

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## EDUCATION

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### Master of Applied Computer Science

*Dalhousie University | Halifax, Nova Scotia, Canada*

*Sep 2019 – Dec 2020*

- Relevant Coursework: **CSCI 5308** (Advanced Topics in Software Development), **CSCI 5708** (Mobile Computing), **CSCI 5408** (Data Management, Warehousing and Analytics), **CSCI 5409** (Advanced Topics in Cloud Computing).
- Received a scholarship of \$1500 due to outstanding academic performance and an offer to perform the duties of Graduate Teaching Assistant in CSCI 5308 due to excellent Java programming skills.

### Bachelor of Technology in Information Technology

*Nirma University | Ahmedabad, Gujarat, India*

*Aug 2016 – Jul 2019*

- Relevant Coursework: Software Engineering, Object-oriented Programming, Database Management Systems, Advanced Data Structures.
- Ranked 2<sup>nd</sup> amongst 72 other graduated students in the program.

### Diploma in Information Technology

*Gujarat Technological University | Ahmedabad, Gujarat, India*

*Aug 2013 – Jul 2016*

- Received a university scholarship of \$500 due to academic excellence.
- Secured 2<sup>nd</sup> rank amongst 120 other graduated students in the program.

## TECHNICAL SKILLS

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<b>Languages:</b>	(Proficient) Java, (Intermediate) Typescript, HTML, CSS, Python, (Basic) JavaScript
<b>Databases:</b>	(Proficient) SQL, SQL Server, (Intermediate) MongoDB
<b>Frameworks &amp; Tools:</b>	Angular, Jasmine, Protractor, Selenium, JUnit, Spring, Struts, Maven, Gradle, Jenkins, Git, JIRA, JFrog Artifactory, Eclipse, VS Code, IntelliJ IDEA, Docker, AWS, JMS
<b>Development Practices:</b>	Agile, Test-driven Development, unit testing, S.O.L.I.D principles of object-oriented programming, design patterns, version control, continuous deployment

## EXPERIENCE

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### IT Senior Developer

*Canada Revenue Agency | Toronto, Ontario, Canada*

*Feb 2022 – Present*

- Mentor, assist, and create roadmaps for teams to design and propose technical solutions.
- Propose and implement high-quality development practices to improve team's effectiveness and productivity.
- Besides development, help maintain high-quality coding standards and peer-review code before migration.
- **Technologies:** Java, SQL, Angular, Typescript, HTML, CSS, Maven, REST, Jenkins, IBM MQ, Git, JIRA, MS Teams.

### IT Analyst/Developer

*Canada Revenue Agency | Halifax, Nova Scotia, Canada*

*Sep 2020 – Feb 2022*

- Developed front-end and back-end solutions primarily in Angular, Java and SQL by following Agile principles.
- Wrote high-quality code (UI components and REST modules) by practicing best development practices and maximizing test coverage (both unit tests and automation tests.)
- Regularly participated in code reviews, sprint retrospectives, code walkthrough and knowledge sharing sessions.
- **Technologies:** Java, SQL, Angular, Typescript, HTML, CSS, Maven, REST, Jenkins, IBM MQ, Git, JIRA, MS Teams.

## Graduate Teaching Assistant (CSCI 5308)

*Dalhousie University | Halifax, Nova Scotia, Canada*

*Apr 2020 – Aug 2020*

- Wrote high-quality code by applying S.O.L.I.D principles, design patterns, Test-driven development and GitFlow.
- Delivered a live virtual session about CI/CD to 50+ graduate students enrolled in MACS program.
- Regularly reviewed, assessed, and marked students' group project code by tracking violations of best practices taught in CSCI 5308 course.
- **Technologies:** Java, Gradle, Git, GitLab, JIRA, SQL, Spring, REST, CI/CD, MS Teams.

## Software Intern

*MAQ Software | Mumbai, Maharashtra, India*

*Jan 2019 – May 2019*

- Designed high-performance SQL Server queries and handled a database with 100,000+ records.
- Contributed to develop a tool in C# that calculates load time of Power BI reports and performed automated testing.
- Volunteered to lead other interns on the team, organized knowledge sessions, and worked with large technical teams practicing Agile methodologies.
- **Technologies:** SQL Server, C#, Power BI, Selenium, Git, Azure, Microsoft VS Team Services (VSTS), MS Teams.

## PROJECTS

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### Course Management Tool

*Dalhousie University | CSCI 5308 (Group Project) | [Git](#)*

*Winter 2020*

- Developed a Spring MVC application that facilitates course management, survey management, and formation of student groups.
- Implemented OOP design principles, design patterns, unit testing, GitFlow, and CI/CD to write high-quality code in Java by following Agile principles and organizing a team of 5.
- **Technologies:** Java, JUnit, Gradle, Git, JIRA, SQL, HTML, CSS, JavaScript, Spring, REST, CI/CD, Docker, MS Teams.

### Patient Risk Tracker

*Dalhousie University | CSCI 5308 (Individual Assignment) | [Git](#)*

*Winter 2020*

- Refactored Java codebase that measures risk level of a patient to make the code maintainable and flexible.
- Applied S.O.L.I.D principles and design patterns to improve the code quality and performed unit testing to ensure the correctness of code behaviour.
- **Technologies:** Java, JUnit, Git.

### Tourist Application

*Dalhousie University | CSCI 5409 (Group Project) | [Git](#)*

*Winter 2020*

- An application (mobile and web) that lets users view tourist places in Canada and book bus tickets to visit them.
- Contributed to develop a mobile application in Java; consumed cloud services by AWS; designed back-end and programmed three micro-services in Spring; and handled a SQL database.
- **Technologies:** Java, JUnit, Git, SQL, Spring, React, REST, AWS, Docker, Android, MS Teams.

### Express Store

*Dalhousie University | CSCI 5708 (Group Project) | [Git](#)*

*Fall 2019*

- Developed a mobile application that allows users to scan product barcodes, add products to a digital cart and pay for them without interacting with a human or self-checkout booth.
- Implemented design patterns; created web services using Spring framework; designed a SQL database; and organized a team of 5.
- **Technologies:** Java, JUnit, Git, SQL, Spring, REST, Android.

## CERTIFICATIONS

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- Problem Solving - Advanced, *HackerRank*
- Design Patterns, *Coursera – University of Alberta*
- Java Microservices with Spring Boot, *Coursera – Google Cloud*
- Querying Data with Transact-SQL, *Microsoft (EXAM 70-761)*