

# Harshil Patel

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## EDUCATION

- Bachelor of Science in Computer Science with Mathematics minor** Dec 2023  
University Of Saskatchewan

## CERTIFICATIONS

- Oracle Certified Professional, Java SE 11 Developer
- Amazon Web Services (AWS) Certified Developer – Solution Architect
- CompTIA A+

## ADDITIONAL SKILLS

- Programming Languages:** C, C#, Java, Python, JavaScript, HTML, CSS, PHP, NodeJS, Flutter
- Technical Skills & Tools:** MySQL, AWS, Firebase, Git, GitHub, GitLab, Visual Studio, IntelliJ, PyCharm, Unity, Docker, Eclipse, Selenium, JIRA, Maven, Jenkins, JFrog, API, BMC Remedy, Citrix

## PROFESSIONAL EXPERIENCE

**Canada Revenue Agency (CRA)** Saskatoon, SK  
IT Developer May 2023-Present

- Develop and maintain internal automation tools and custom **Maven plugins** to support health checks, diagnostics, and validation of CRA enterprise software systems.
- Design and implement robust **Java-based** backend components used across CRA environments to monitor system integrity and ensure production-readiness.
- Build and integrate reusable **RESTful APIs** to streamline internal toolchains and improve automation workflows. Architect and execute automated test suites and health check frameworks, improving deployment reliability and reducing manual QA efforts by 40%.
- Collaborate in Agile/Scrum teams to develop solutions aligned with evolving stakeholder and business requirements.
- Contribute to **CI/CD pipelines** using **Jenkins**, automating the build, test, and release processes to accelerate development cycles.
- Develop cross-platform scripts using **PowerShell** and **Bash** for system orchestration and post-deployment validations.
- Work with **JFrog Artifactory**, **Nexus**, and internal repositories to manage Java artifacts and plugin distributions.
- Coordinate with DevOps and infrastructure teams to enhance observability, logging, and reliability of mission-critical internal applications.
- Participate in code reviews, performance tuning, and refactoring, adhering to clean code principles and CRA security guidelines.
- Actively contribute to technical documentation, plugin versioning, and internal developer onboarding.
- Showcase the ability to quickly learn new skills and efficiently apply them, in alignment with the fast-paced and innovative environment.

**Environment:** Java 11+, PowerShell 7, Maven, Jenkins, Git, JFrog Artifactory, PowerShell, REST APIs, Spring Boot (internal), Nexus, BMC Remedy, Agile/Scrum.

**Mobile Technologies Inc.** Saskatoon, SK  
Developer Intern May 2021-Aug 2021

- Designed and executed comprehensive test plans, reducing critical defects by 30% and enhancing product quality.
- Implemented Selenium-based automation frameworks, cutting test execution time by 50%, boosting coverage, and precision.
- Developed and maintained capabilities across technologies like MSSQL Server.
- Conducted exploratory testing, uncovering hidden defects and usability issues, lowering customer-reported issues by 25%.
- Led cross-functional testing for major releases, ensuring timely, successful deployment.
- Mentored QA team, enhancing performance and knowledge sharing.

- Conducted performance and load testing, improving system scalability and reliability.
- Streamlined testing processes, utilizing JIRA, Confluence, and thorough documentation.

**Environment:** Java, Selenium WebDriver, Selenium Grid, TestNG, Cucumber, Jenkins, Maven, XPath, Eclipse, CSS, GitHub, agile, SQL and Windows.

## VS Technology

Developer Intern

India

Dec 2019-Apr 2020

- Participated in Test Driven Development methodologies, increasing efficiency by 30%.
- Created test cases and automated scripts using Selenium WebDriver, TestNG, and Jenkins, boosting automation coverage by 25%.
- Assisted in developing automation acceptance test suites, reducing test execution time by 20%.
- Executed SQL queries and PL/SQL procedures for backend testing, enhancing data validation accuracy by 15%.
- Performed backend testing using SQL queries, increasing testing coverage by 10%.
- Assisted in GUI element verification using XPath and CSS Locators, improving testing accuracy by 15%.
- Applied Android's Material Design principles to craft user-centric app features.
- Translated requirements into efficient code through collaboration with cross-functional teams.
- Enhanced app efficiency using Android Studio analysis tools.
- Contributed to Agile-testing methodology, improving overall product quality by 10%.

**Environment:** Java, Agile, Selenium WebDriver, Selenium Grid, TestNG, Maven, Jenkins, Cucumber, SoapUI, TDD, Agile, Eclipse, HTML, XML, XPath, JavaScript, JIRA, SQL, UNIX, Windows.

## ACADEMIC PROJECTS

**VEGETAP: Food Delivery Application (Skills:** DART/Flutter, Firebase Database, Google Auth, VS Code, Git)

- Developed a cross-platform mobile application for food and grocery delivery using Flutter and Firebase.
- Led a team of 3 students, following Agile methodology and MVC architecture.
- Integrated Google Pay and Apple Pay payment systems, enhancing user experience.
- Reduced application and data load time by 30%.

**One Man Army: Game Development (Skills:** C#, Unity2D, Git)

- Created a dungeon-based game in Unity2D using C#, implementing procedural content generation and A\* pathfinding.
- Managed a team of 6 developers, ensuring continuous integration and Agile practices.

**Online Voting System (Skills:** HTML, CSS, JavaScript, PHP, MYSQL, jQuery, Apache Server, VS Code, Git, Docker)

- Developed an online portal for voting, accessible remotely with admin controls.
- Implemented end-to-end system with MD5 hashing and database management.

**Hospital Management System (Skills:** Java, Swing GUI, Git, Kubernetes)

- Built an interactive system for hospital staff management, patient tracking, and inventory control using Java and Swing GUI.
- Transitioned from CLI to GUI based on customer feedback, increasing system adoption by 10%.

**Personal Portfolio (Skills:** HTML, CSS, JavaScript, GitHub)

- Designed a live, user-friendly portfolio showcasing personal skills, information, and experience.

## ACHIEVEMENTS

- Youth Lead, BAPS Charities Saskatoon
- The University of Saskatchewan Students Union Member
- The University of Saskatchewan Computer Science Students Union Member
- Canada Revenue Agency – IT Branch Young Professionals Network Member
- Canada Revenue Agency – ITB Brand Ambassador 2023-2024

## REFERENCES

**Nisarg Patel (130434): Collections SaskTel**