

# BHAUTIK PATEL

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## PROFILE SUMMARY

Master's student in Applied Computing with practical experience in automation, CI/CD pipelines, and software development across fintech and technology domains. Skilled at streamlining workflows, building GitHub Actions pipelines, and developing utilities that transform raw data into actionable insights. Strong collaborator recognized for problem-solving, adaptability, and cross-functional teamwork

## SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, C, R, Shell scripting(BASH), PHP
- **Tools:** Git, GitHub Actions (CI/CD), Selenium, Docker, AWS, Power BI, Tableau, JIRA
- **Database Systems:** MySQL, MongoDB, Oracle, Microsoft SQL Server
- **Frameworks:** NodeJS, ExpressJS, ReactJS, Django, Bootstrap, Tailwind CSS
- **APIs & Testing:** RESTful API development, GraphQL, Postman, ReadyAPI, BDD(Cucumber)
- **Methodologies:** Agile Development, Scrum, Design Thinking

## EDUCATION

- **Master in Applied Computing** May 2024 - Present  
Windsor, ON  
*University of Windsor* • GPA: 85/100
  - Coursework: Software Engineering, Networking and Data Security, Advanced Database Topics, Advanced System Programming, Distributed Systems
- **Bachelor of Computer Engineering** Jul 2019 - Jun 2023  
Ahmedabad, India  
*HGCE - Gujarat Technological University* • GPA: 8.85/10
  - Coursework: Machine Learning, Data structure, Database Management System, Object Oriented Concepts, Design and Analysis of Algorithm, Computer network, Operating system

## EXPERIENCE

- **Automation Analyst Co-op** May 2025 – Present  
Toronto, ON  
*Royal Bank of Canada (RBC)*
  - Automated manual workflows (e.g., tool migration), reducing effort and saving 70% of team time while improving accuracy across fintech client systems
  - Designed and deployed CI/CD pipelines in GitHub Actions to run regression and smoke tests across multiple environments, with automated test artifact uploads to test management tools, while applying shift-left testing principles to detect defects earlier in the lifecycle
  - Converted repetitive manual testing tasks into automation frameworks with automatic dynamic data creation, shrinking project timelines and optimizing resource usage
  - Built Proofs of Concept (POCs) and utilities to address team needs—such as extending Postman with database connectivity for end-to-end validation and utility scripts for internal processes
  - Enhanced test coverage by integrating REST and GraphQL APIs with BDD scenarios, improving early defect detection and release quality
  - Collaborated with Quality Engineering (QE), business, and development teams to identify process gaps, propose automation strategies, and deliver scalable solutions that improved efficiency and cross-team alignment
- **Software Developer Intern** Jan 2023 - Jun 2023  
Ahmedabad, India  
*Stallion Infotech PVT*
  - Partnered with clients to gather requirements, translate them into technical specifications, and deliver tailored solutions aligned with business objectives under Agile methodology
  - Improved user experience by refining UI components, streamlining navigation flows, and implementing accessibility best practices, ensuring seamless functionality across devices
  - Designed, developed, and tested RESTful APIs, resolving 85% of post-production issues proactively through early-stage debugging and robust validation
  - Optimized SQL and MongoDB queries, cutting query execution time by up to 40% and enhancing database performance for faster application response
  - Gained hands-on exposure to CI/CD practices by exploring automated testing, build pipelines, and deployment workflows, contributing to more reliable and efficient releases

## PROJECTS

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### • CrediWise: Automated Loan & Credit Eligibility Analysis System

*Tools: Spring Boot, Flask, MySQL, Angular, ML (XGBoost, Logistic Regression)*

- Developed Spring Boot REST APIs to integrate backend with an ML model and MySQL database, implementing business logic for real-time credit eligibility decisions
- Enabled applicants to receive instant pre-qualification results (approval, credit limit, interest rate) in under 2 minutes, streamlining traditional banking workflows
- Resolved backend-to-ML integration latency by modularizing APIs and adopting OpenAPI-first design, reducing ML response time from 3.2s to 1.1s
- Strengthened platform security by adding AES-256 encryption, JWT authentication, and Bcrypt hashing, while conducting simulated penetration testing (XSS, SQL injection)
- Collaborated in an Agile team with TD Bank stakeholders, leveraging A/B testing to improve form completion rates by 28% and ensure a production-ready solution

### • MetaPool: Optimizing Dataset Discovery with Metadata Integration

*Tools: Java, Python, Selenium, React.js, MongoDB, Tableau*

- Automated metadata extraction using Selenium and API integration, consolidating 5,600+ unstructured datasets into a unified, searchable schema
- Developed a React.js web application with Node.js APIs and MongoDB backend for fast dataset search/filtering
- Integrated Tableau dashboards for data visualization, enabling stakeholders to derive insights without manual curation
- Solved the problem of dataset fragmentation by providing a scalable discovery platform, reducing search time from hours to minutes

### • Food Price Analysis System

*Tools: Java, Selenium, React.js, JavaScript, MySQL, JSP*

- Designed a web crawler with Selenium to automate grocery price extraction, eliminating manual comparisons across stores
- Built a React.js front-end with MVC principles, ensuring clear separation of concerns and maintainability
- Implemented advanced data structures and ranking algorithms to optimize search queries and provide real-time price comparisons
- Delivered cost-saving insights for consumers while showcasing scalable automation for e-commerce data aggregation

### • MiniShell

*Tools: C, UNIX*

- Developed a lightweight shell utility with extended UNIX commands, supporting script execution and automated test workflows
- Focused on robust error handling and process management, ensuring high stability under concurrent execution
- Demonstrated strong systems-level programming and the ability to automate at the OS level

## CERTIFICATIONS

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| • Unix Essential Training - Linkedin Learning                                  | Sep 2024 |
| • Selenium Essential Training - Linkedin Learning                              | May 2024 |
| • Java Programming: Solving Problems with Software - Duke University, Coursera | Jan 2021 |