NITYA DESAI

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SUMMARY

Software engineer with experience building scalable web, mobile, and data-driven applications. Skilled in multiple languages and frameworks, eager to solve complex problems and deliver impactful, reliable solutions.

SKILLS AND QUALIFICATIONS

Programming Languages:	Java, C#, .NET, C++, Python, C, Ruby
Web Development:	HTML, XML, CSS, JavaScript, Typescript, React
Database Management:	SQL Server, PostgreSQL, Oracle
Infrastructure & APIs:	RESTful API design, workflow orchestration, CI/CD pipelines
Frameworks & Tools:	.NET, Angular, React, Jenkins, Git, Azure, AWS
Testing & QA:	Selenium, NUnit, JUnit, Pytest, automated verification
Scripting Languages:	BASH, Shell (Linux/Unix)
Software Tools:	PowerBI, Microsoft Office (Word, Excel, PowerPoint), JIRA, Visual Studio

EDUCATION

Bachelor of Science, Computer Science   Sept 2021 - Aug 2025
York University, Canada

WORK EXPERIENCE

Developmental Intern   **Bowmanville, ON**
Ontario Power Generation   Jan 2025 – Aug 2025
- Provided some **technical support**, **troubleshooting software**, and **network issues** for end users.
- **Developed full-stack applications** using **Angular**, **ASP.NET 8**, and **SQL** to streamline business operations.
- Built an AI analytics tool, saving 3,000+ hours annually and generating $200K+ impact.
- Partnered with stakeholders to define and refine requirements aligned with technical and operational goals.
- **Designed Power BI dashboards**, boosting decision-making and saving **6+ hours/week** in reporting.
- Optimized database performance with indexing and stored procedures, significantly reducing query time.
- **Led automated testing pipeline** implementation with **Selenium** and **NUnit** to support CI/CD.
- **Created technical documentation** and delivered training for successful user adoption.

Software Developer   **Toronto, Canada**
York University   April 2021 – Dec 2024
- Developed and maintained web and desktop apps for academic and administrative projects.
- Built RESTful APIs, optimized databases, and delivered responsive user interfaces.
- Collaborated with faculty, researchers, and IT teams to gather requirements and deliver scalable solutions.
- Improved application performance and reliability through debugging, automated testing, and performance.
- Created documentation and applied version control and agile practices to streamline development.

Quality Engineer - Coop   **Toronto, Canada**
TD Bank   Jan 2024 – April 2024
- Worked on a critical Business Banking web application, contributing to a 25-member Agile team.
- Designed, developed, and executed automated test scripts using Selenium and Java.
- Documented comprehensive test scenarios, plans, and cases to ensure full coverage and repeatability.
- Set up and maintained CI pipelines with Jenkins, improving build and deployment efficiency.
- Assisted with database management and maintenance using SQL for test data and validations.
- Gained insights into enterprise-scale banking systems and strengthened cross-team collaboration.

PROJECTS

Warehouse Management (Android) — Github   Dec 2023
A comprehensive **Warehouse Management System (WMS)** built in **Java**, optimizing inventory operations with dynamic order fulfillment, restocking strategies, and diverse pricing models.
- Developed the application for **Android** using **IntelliJ** and **Java**.
- Built a robust database model using **SQLite** to manage products, restocking, and discounts.
- Designed the user interface with **JFrame**, ensuring clarity and usability.

- Implemented **Agile** development process, improving delivery speed and collaboration across the team.
- Created detailed **Sequence, Activity**, and **Architecture diagrams** using **Lucidchart**.
- Implemented **server-client architecture** with Java HTTP Server for real-time processing.
- Applied key design patterns like **Singleton, Proxy, Factory Method, State, Observer, Façade, Adapter**.
- Oversaw the entire SDLC, ensuring quality code, adherence to standards, and timely delivery.
- **Developed unit tests**, **automated test cases**, and **system integration tests** with reports.
- Led a team of four, managing tasks, aligning deadlines, and fostering collaboration.
- Tools and Frameworks: **Java, IntelliJ, SQLite, JIRA, Lucidchart**.

MasterMind (Android) — Github   Dec 2022

A simple number-guessing game where the user wins by matching the number randomly selected by the computer.

- Built for **Android** using **Android Studio** and **Java**.
- Documented the **Software Development Life Cycle (SDLC)** for clarity and process.
- Followed **Agile development principles** throughout the project.
- Utilized Android libraries like **TextView, Spinner, Random, View**, and others.
- Contributed to all SDLC stages: **planning, designing, testing, deploying, debugging, and maintaining**.
- **Developed unit tests**, **automated tests**, and **system integration test cases**, with reporting.
- Led a team of three, managing tasks, timelines, and communication for on-time delivery.
- Ensured **code reviews** before merging changes into the main branch for quality control.
- Tools and Frameworks: **Java, Android Studio, Android SDK**.