



Nakul Patel

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EDUCATION

Wilfrid Laurier University, *Bachelors of Computer Science (BCS) and Bachelors of Business Administration (BBA) Double Degree*

Sep 2022 – Apr 2027 | Waterloo, ON

- Coursework: Data Structures I & II, Operating Systems, Algorithms & Analysis I, Artificial Intelligence, Database I

SKILLS

Programming: Java, Python, C, C++, HTML, CSS, JavaScript, PHP, VBA, SQL, Swift

Frameworks/Libraries: React, Flask, Agile, Jira, Figma, Bash, Git, GitHub, Linux/Unix, Azure, Pandas, Microsoft Office

PROFESSIONAL EXPERIENCE

Definity Financial Corporation, *QA Automation Developer*

Jan 2025 – Apr 2025 | Waterloo, ON

- **Developed and maintained automated test scripts** for mobile and web applications using **Java, JavaScript, and XML**, increasing test coverage by **35%** and reducing manual testing efforts by automating repetitive test cases.
- Optimized a **visual regression testing framework** with **LambdaTest** and **Percy**, detecting UI/UX inconsistencies with **98% accuracy**, enabling comprehensive test scenarios to ensure design consistency across multiple platforms.
- Integrated test suites into **CI/CD pipelines**, reducing regression testing time by **40%**, enhancing deployment efficiency, and minimizing the risk of production defects through continuous validation and automated quality checks.

Stouffville Chamber of Commerce, *Data Analyst, Outreach Representative*

May 2024 – Aug 2024 | Stouffville, ON

- **Analyzed and interpreted chamber data** using **ChamberMaster**, identifying key trends that improved report accuracy by **15%**, providing board leaders with data-driven insights to optimize event planning and community engagement strategies.
- Enhanced data management and reporting by optimizing **database queries** and **automating data processing** with **SQL** and **VBA**, streamlining workflows and enabling leadership to make more informed strategic decisions.

RIZE Sports Event Management, *Co-President, Executive Board Member*

May 2023 – Apr 2024 | Brampton, ON

- **Led a team of 10 students** to launch an **event business**, organizing **tournaments**, successfully fostering community unity and achieving **profitability within six months**.
- Developed an **automated software tool** using **Excel/VBA**, streamlining data entry and enhancing financial management efficiency, reducing manual processing time by **50%**.

Riipen Networks Inc., *Software Developer*

Jan 2023 – Apr 2023 | Toronto, ON

- **Developed a cross-platform web application** in a **startup environment**, collaborating with **senior engineers** through **pair programming**, **Sprint planning**, and **user acceptance testing (UAT)** to ensure high-quality code delivery.
- Designed and implemented **core UI components** using **React.js** and **JavaScript**, ensuring seamless cross-platform compatibility and enhancing user experience, leading to a **20% improvement in interface responsiveness**.
- Automated key **ad-hoc tasks** by developing scripts in **Python** and **Java**, optimizing grading system efficiency for examinations using a **Regex-based algorithm**.

JP Morgan Chase & Co., *Software Engineering Virtual Experience Program*

Nov 2022 – Dec 2022 | Toronto, ON

- **Developed an interactive interface** with **live stock price updates** using **Perspective** and **Python scripts**, increasing data accuracy by **20%** and ensuring investors had **real-time access** to market information.
- **Visualized stock price data** with a **live line graph**, enabling investors to identify trends and highlight key insights for **informed decision-making**.

Staples Inc., *Technology Sales Area Representative, Technician*

Jul 2020 – Dec 2021 | Stouffville, ON

- Exceeded managerial expectations and became the store's **top-selling employee**, generating **over \$200,000 in technology sales** and **achieving a 35% warranty attachment rate** by creating a strategy to identify and fulfill customers' needs.
- Installed and implemented an **advanced automated binning system**, optimizing **customer service efficiency by 75%** and helping associates organize products around the store.

PROJECTS

Student Grades Application, *Modular Based Marking Application – VBA | SQL | Microsoft Excel*

- Developed a GUI application using VBA that parsed user provided database files with SQL to export summarized grade data reports, and class lists into formatted documents.

VisualSortX, *Sorting Algorithm Visualizer – Python | PyGame*

- Developed an interactive visualizer for sorting algorithms, including Merge Sort, Insertion Sort, Quick Sort, and Heap Sort.
- Utilized Pygame to create dynamic animations, enhancing the visual appeal and understanding of algorithm efficiency.

Checkers – A Classic Board Game, *AI Based Checkers Game – Java*

- Developed an engaging game that lets users to play against AI or another player, providing an interactive game experience.
- Implemented AI using OOP to simulate a competitive opponent, utilizing Minimax algorithms to create strategic gameplay.

NutriGenie – BDO New Venture Competition, *Functional Areas Business Project – Microsoft Office Tools*

- Presented a detailed and creative business strategy for a new venture by doing thorough market research and analysis.
- Developed a financial plan to breakeven and become profitable, which was achieved by interpreting key market insights.