

VED PATEL

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EDUCATION

Computer Engineering Technology - Computing Science

January 2023 - April 2025

Advanced Diploma

Algonquin College, Ottawa, ON

Relevant Coursework: BI and Data Analytics, Network Programming, Java Application Programming, ASP.NET Core, C++ Programming, Software Design and Testing, Real-time Programming.

GPA: 3.52/4 - Dean's Honor List.

SKILLS

Languages	Java, Python, C, C++, C#, JavaScript, TypeScript, SQL.
Web Technologies	React, Next.js, Node.js, Express.js, Tailwind CSS, HTML/CSS, ASP.NET.
Database Technologies	PostgreSQL, MySQL, MongoDB.
DevOps & Cloud	Docker, Kubernetes, AWS, Azure, CI/CD.
Software Engineering	Object-Oriented Design, Data Structures & Algorithms, Agile Environments.
Tools & Testing	Postman, Jira, GitHub, RapidMiner, Power BI, VS Code, selenium, JUnit.
Collaboration	Communication, Problem solving, Detail-Oriented, Clear Code Explanation.

EXPERIENCE

Volunteer Software Developer

September 2022 - April 2022

Communications Security Establishment Canada

Ottawa, ON

- Developed an internal developer marketplace using React and JavaScript, reducing workflow bottlenecks by 40% for 50+ engineering teams.
- Implemented secure authentication with Auth0, achieving 100% compliance with organizational security policies.
- Containerized services using Docker/Kubernetes, achieving 99.9% uptime with CI/CD automation.

Backend Engineer Intern

May 2022 - November 2022

Hitech Digital Solutions

Ahmedabad, Gujarat, India

- Developed admin panel using Node.js with RBAC for 1,000+ employees, enhancing security by 30%.
- Reduced data retrieval time 40% and system downtime 20% through SQL query optimization and bug resolution.
- Improved team efficiency 25% by mentoring junior developers and streamlining backend workflows.

PROJECTS

NYPD Complaint Data Analysis: Led a team of six to analyze 400,000+ NYPD complaint records, providing 10+ key insights for strategic decision-making. Utilized RapidMiner to clean and model data, applying 7+ machine learning techniques including KNN, Decision Tree, Random Forest, Clustering, and Outlier Detection, achieving a 30% improvement in anomaly detection. Used Power BI to generate 15+ interactive graphs and maps, revealing that 60% of crimes were concentrated in specific high-risk areas. Proposed 5+ strategic measures for the NYPD to reduce crime rates, improving response strategies by 20%.

Slider Web Game: Led a team of 4 to develop a Java-based web application with role-based authentication and multi-platform support for web, mobile, and desktop. Used Java, RESTful APIs, JSF, React, Kotlin, Java Swing, and MySQL. Implemented authentication with password hashing, restricting access based on roles: admins (all pages), restGroup (5+ RESTful APIs) and JSFGroup (4+ JSF pages). Built a react page with HTML5 Canvas animations for dynamic slider management. Developed a Kotlin Android app and a Java Swing desktop application. Automated testing with Selenium and JUnit achieved 95% coverage, boosting reliability by 20% and reducing bugs by 30%.