Nirav Patel

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EDUCATION

Concordia University   September 2022 – May 2026
Bachelor of Software Engineering (CO-OP Program)   *Montreal, QC*

EXPERIENCE

SDK Specialist   September 2023 – December 2023
Genetec Inc.   *Montreal, QC*
- Provided SDK consulting services to over thirty-five of Genetec's development partners, including troubleshooting, custom application development, and knowledge sharing.
- Developed features for a C#-based WPF desktop app using the company's proprietary UX framework.
- Enhanced a Node.js/TailwindCSS/Vue.js website, addressing issues and integrating new functionalities.

PROJECTS

BlogWiz / *Java, JavaFX, Maven, Eclipse*   September 2023 – October 2023
- Created "BlogWiz," a Java-based blog content management application with SSH authentication, intuitive interface, and file management capabilities.
- Implemented features like file exploration, text editing, and real-time logging.

RealTimeFeed / *MongoDB, Express.js, React, Node.js, TailwindCSS, GraphQL*   December 2023 – December 2023
- Developed 'RealTimeFeed,' a full-stack project enabling users to create, submit, and access posts with title, description, and content. Utilized React and TailwindCSS for the frontend and Node.js, GraphQL, and Socket.io for the backend.
- Implemented user authentication, allowing secure logins and the creation of new posts. Integrated real-time functionality for a dynamic global feed, updating instantaneously upon new post submissions, deletions, and updates.

PySimulator / *Python, Tkinter, VS Code*   September 2023 – October 2023
- Developed a Python-based "2D Projectile Motion Simulator" for visualizing and simulating 2D projectile motion, allowing users to input launch parameters and visualize trajectories.
- Features include the ability to simulate projectile motion, visualize trajectories with Matplotlib, and display critical metrics like maximum height, range, and time of flight. Users can adjust the x and y-axis ranges, toggle grid lines, and clear the plot.

ArduinoCart / *C++, Arduino*   January 2020 - May 2020
- Developed an "Autonomous Arduino Cart" project involving a team effort with members to create an obstacle-course robot with multiple sensors and a servo motor for autonomous navigation.
- Implemented three operational modes: remote control for manual operation, wall-following for autonomous wall tracking, and tape-following mode for tracking colored tape on the ground.

SCHOLARSHIPS AND AWARDS

Schouela Family Concordia Entrance Scholarship   September 2022
- Recipient in recognition of academic excellence and leadership.

Adopt-a-Student Concordia Entrance Scholarship   September 2022
- Acknowledged for outstanding achievements.

Quebec Lieutenant Governor General Bronze Youth Medal   June 2020
- Honored for exceptional contributions and dedication to the community.

TECHNICAL SKILLS

Languages: Java, C#, Python, C/C++, SQL (Sequelize), NoSQL (MongoDB), GraphQL, JavaScript, HTML/CSS/PHP
Frameworks: React, Node.js, Express.js, Vue.js, Flask, WPF, Tailwind CSS, Bootstrap, Chai.js, Mocha.js, .NET
Developer Tools: Git, GitHub, Jira, TFS, VS Code, Visual Studio, IntelliJ, Eclipse, Arduino, Maven, Unity Engine
Libraries: Tkinter, Three.js, Matplotlib, Socket.IO