TCHEUFFA DARREN RAYAN

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PROFESSIONAL SUMMARY

Full-stack Software Developer with hands-on experience building scalable web and IoT-integrated applications using JavaScript, Java, React, Node.js, C# and SQL. Experienced in full software lifecycle development including requirements gathering, system design, API integration, deployment, and maintenance. Strong background in version control (Git), collaborative workflows, and performance optimization.

EDUCATION

New Brunswick Community College   **Moncton, New Brunswick**
Diploma in Software Development   *Expected Graduation, June 2026*

- **Concentrations:** Full-Stack Development, Database Design, Mobile Application Programming
- **GPA:** 3.82/4.00, *Dean's List*
- **Related Coursework:** Object-Oriented Programming (Java, C#, C++,PHP), Database Design & SQL, JavaScript Programming, Web Development, Embedded Programming (C, C++, Arduino, RTOS, ESP32),Software Engineering , Quality Assurance Testing**.**

EXPERIENCE

Full-Stack Software Developer – Smart Parking System   **Moncton, New Brunswick**
Full-Stack Developer | **Smart Parking Link**   *Dec 2024 – Present*

- Designed and implemented a full-stack intelligent parking management system integrating ESP32 hardware sensors with a cloud-based dashboard
- Architected modular system separating IoT devices, communication layer, backend services, and frontend interface
- Developed responsive frontend using React, JavaScript, HTML, and CSS for real-time visualization of parking availability
- Built RESTful APIs and backend logic for processing sensor data and managing system state
- Designed scalable database structure for parking and environmental data storage
- Implemented MQTT-based real-time data transmission over Wi-Fi
- Applied Git-based version control and structured development workflow
- Conducted testing, debugging, performance optimization, and reliability validation
- Implemented authentication logic for administrative dashboard access.

Full-Stack Web Developer (Freelance & Contract Projects)   **Dieppe, New Brunswick**
Web Developer | **School Website Link** | **Salon Booking System Link**   *Nov 2024 – Aug 2025*

- Designed and developed responsive web applications using HTML, CSS, JavaScript, and modern UI principles
- Built an online booking system reducing administrative scheduling conflicts and decreasing phone-based bookings by 70%
- Developed dynamic front-end interfaces and implemented client-side logic for improved user interaction
- Structured application components using modular JavaScript architecture
- Performed testing, debugging, and iterative performance optimization
- Delivered production-ready solutions and provided ongoing maintenance
- Designed backend logic and database structure for appointment scheduling and user data management

Software Developer   **Moncton, New Brunswick**
Open-Source Contributor Remote   *Sep 2023 –Present*

- Contributed to JavaScript-based browser extension project focused on performance optimization and UI improvements
- Implemented filtering algorithm enhancements improving blocking efficiency by 15%

- Resolved production-level bugs in content filtering logic.
- Collaborated using Git workflows, pull requests, issue tracking, and peer code reviews

PROJECTS

System Audio Management Tool   **Moncton, New Brunswick**
Windows Application Developer   *Dec 2024 – Jan 2025*
- Developed desktop application in C# using Windows API for automated system audio control
- Designed scheduling logic allowing users to configure automatic mute/unmute rules
- Implemented system tray integration and background execution handling
- Applied object-oriented design principles and event-driven programming

CERTIFICATIONS

freeCodeCamp
Foundational C# Programming with Microsoft 2024 | **Certificate Link**
HarvardCs50x
Introduction to Computer Science (2024) | **Certificate Link**

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, C#, C++, PHP

- **Frontend:** React.js, HTML5, CSS3, Figma

- **Backend & APIs:** Node.js, RESTful APIs

- **Databases:** MySQL, PostgreSQL, SQL

- **Version Control:** Git, GitHub

- **Tools & Platforms:** VS Code, Visual Studio, AWS, Firebase

- **Software Engineering Practices:** Object-Oriented Programming (OOP), MVC Architecture, Design Patterns, Code Reviews, Test-Driven Development

ADDITIONAL INFORMATION

- Fluent in English and French
- Strong analytical and problem-solving skills
- Comfortable working in fast-paced, deadline-driven environments