**{FirstName} {LastName}**

**{Title}**

{Location} | {Mobile} | {Email} | {LinkedIn}

**SUMMARY**

{Summary}

**EDUCATION**

**NAIT** | Edmonton, CA | 2023 – 2025

* **Course: Computer Engineering Technology**

*Where I developed software applications using C# and .NET by designing and implementing full-stack solutions and embedded system integrations, resulting in practical skills to deliver reliable, real-world software projects.*

**PROJECTS**

Portfolio Website: [www.nareshkoirala.dev](http://www.nareshkoirala.dev)

**Resume Builder App**

*Developed a cross-platform Resume Builder app using .NET MAUI that integrates multiple job site APIs and user input validation, enabling AI-driven generation of custom resumes and cover letters tailored to specific job descriptions, with downloadable DOCX output.*

* + Integrated multiple job site APIs to fetch and validate job listings based on user preferences.
  + Implemented AI-powered customization to generate tailored resumes and cover letters matching selected job descriptions.
  + Added functionality to input job description URLs, automatically building personalized application documents downloadable as DOCX files.

**Automated Connect 4 Game**

*Developed a robotic Connect 4 system combining motorized hardware and software for automated gameplay. With multiple difficulty levels. Integrating hardware and software seamlessly.*

* + Programmed Raspberry Pi Pico in Micro Python for game logic and AI bot.
  + Created a web interface on ESP32 for real-time gameplay and interaction.
  + Designed motorized hardware for precise token placement on the board.

**SpO2 Monitoring System Design**

*Designed and developed a custom STM32-based SpO2 monitoring PCB using Ki-Cad, programmed firmware in C with Cube IDE to process sensor data, resulting in a fully functional, tested prototype fabricated via PCBWay.*

* Created schematic and PCB layout in Ki-Cad for STM32 and SpO2 sensor integration.
* Developed embedded C firmware to acquire and process SpO2 data using Cube IDE.
* Managed PCB fabrication and conducted hardware testing to validate system performance.

**SKILLS**