Gursharan Singh Rehal

(639) 997-6300 | gurie.ramgarhia@gmail.com | linkedin.com/in/gursharan-singh | github.com/gurriiee

EDUCATION

University of Regina   Regina, SK
Bachelor of Applied Science - Software Systems Engineering   *2022 – Present*

TECHNICAL SKILLS

Languages: C, C++, JavaScript, HTML, CSS, PHP, ARM Assembly

Frameworks
Libraries: NodeJS, ExpressJS, React, Bootstrap, jQuery, Passport, AJAX

Tools
Platforms: Git, MongoDB, MySQL, Apache, VS Code, Keil, Figma, WordPress, Office 365, Solid Edge

Development: MERN stack apps, REST APIs, responsive design, UI/UX prototyping

Embedded
CAD: STM32 microcontroller dev, Keil uVision, real-time logic, CAD modeling

PROJECTS

Smart Distance Warning Aid | C, STM32F103RB   Apr 2025
  − Designed a real-time assistive device with ultrasonic and IR sensors for proximity detection.
  − Integrated buzzer, vibration motor, and LED indicators with non-blocking SysTick and TIM2 input capture.
  − Debugged with UART and validated with ADALM2000 + KiCad.

Simon Says Embedded Game | C, STM32   Dec 2024
  − Implemented a real-time memory game using GPIO interrupts and a state machine structure.
  − Built visual/auditory feedback with Knight Rider animation and modular sequence validation.

MediLocate Web Platform | MERN Stack   Apr 2024
  − Developed a healthcare booking system with secure login, patient/staff roles, and city-wise clinic search.
  − Used MongoDB + REST APIs, Node.js backend, and Bootstrap responsive UI.

Regina SDG Mapping Site | WordPress, Figma   Dec 2023
  − Built Regina's first SDG-linked community platform with empathy maps and stakeholder feedback.
  − Designed accessible interface via Figma and launched via WordPress CMS.

SolidJuicer CAD Model | Solid Edge   Apr 2023
  − Modeled a manual citrus juicer optimized for stability, compactness, and ergonomics.
  − Demonstrated solid mechanical design and visualization in CAD.

Blender 3D Portfolio | Blender, Visual Art   Feb 2023
  − Created original 3D assets and visual animations to explore lighting and camera techniques.
  − Published project renders and short sequences showcasing spatial modeling.

EXPERIENCE

Cast Member   Oct 2022 – Present
Cineplex   *Regina, SK*
  − Delivered high-quality guest service; trained 10+ new team members.
  − Streamlined shift operations and supported cross-functional roles.

CAP3 Associate   May 2022 – Jan 2024
Walmart   *Regina, SK*
  − Handled logistics and merchandise stocking with a team of 17+ associates.
  − Executed overnight tasks and resolved inventory/system errors.

Security Guard − LPO   Jul 2022 – Feb 2024
Executive Protection Services   *Regina, SK*
  − Secured events including Mosaic Stadium; delivered ATM funds via armored transport.
  − Logged daily routes and maintained full compliance with safety protocol.

Awards & Affiliations

International Entrance Scholarship (May 2022)

1st Place — Regina Engineering Competition (Junior Design)

WHMIS Certified

Board Member — U of R Engineering Student Union (Sept 2024 – Present)

Internal Chair — ASHRAE Student Society (Feb 2025 – Present)

References

Available upon request