

MAHI SHARMA

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maaahi.ca (Custom Portfolio Website)

EDUCATION

University of New Brunswick | BSc Software Engineering | Expected May 2029

Relevant coursework: Database Management, Functional Programming, Digital Logic, Digital Systems, Probability & Statistics

TECHNICAL SKILLS

Languages: JavaScript, Java, Python, Racket, SQL, VHDL, Octave

Technologies: Phaser, Vite, MariaDB, Git, Quartus Prime Lite, DrRacket, Fusion 360

Foundations: Software testing, debugging, relational database modeling, recursion, higher-order functions, digital logic

RELEVANT EXPERIENCE

Junior Software Tester | Wolastoq Casino | Jan 2026 - Jun 2026

- Tested slot machine software to identify defects, unexpected behavior, and functional issues.
- Documented and communicated software bugs to management for investigation and review.

TECHNICAL PROJECTS

Freddy Life - 2D Browser Life Simulation | JavaScript, Phaser, Vite | In Development

- Built a playable top-down life simulation inspired by Fredericton, with apartment and downtown environments.
- Implemented frame-rate-independent movement, collision detection, and proximity-based interactions.
- Created hunger, energy, and money systems with meal purchases, rest, and timed café shifts; maintained player state across locations.

Personal Portfolio Website | HTML, CSS, JavaScript

- Built and customized a responsive portfolio with project overviews, interactive dialogs, and a downloadable resume using AI-assisted development.
- Connected a custom domain through GoDaddy DNS configuration and published the portfolio at maaahi.ca.

Functional Programming Implementations | Racket, Git

- Implemented arithmetic over recursively defined natural numbers, including subtraction, comparisons, division, and error handling.
- Developed recursive list utilities and a custom right fold; used higher-order functions and tests to validate behavior.

Pet Care Management System Data Model | Personal Project

- Developed an entity relationship diagram for a personal Pet Care Management System, applying relational database concepts to model entities and their relationships.