Barrie, Ontario, Canada
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Hari Nair

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Skills

Programming Languages: C, C++, Python, JavaScript, TypeScript, CSS, HTML
Technologies: React.js, Next.js, Node.js, NumPy, Tailwind CSS, Git, Auth0, Raylib, Redux, ROS, Arduino, Webflow
Databases: MongoDB, PostgreSQL, Firebase
CAD and Modeling: SolidWorks, SAP2000, MATAB

Involvement and Experience

Junior IT Analyst *JANA Corporation* *April 2023 – August 2023*

- Assist in project planning by gathering project requirements, creating project timelines, and contributing to the development of project plans.
- Review existing security policies and procedures, comparing them to industry best practices and providing recommendations for improvement.
- Utilized technical skills in **Microsoft Azure**, **PowerShell scripting**, and **infrastructure as code (IaC)** to create and deploy automated workflows, reducing manual effort.
- Led and facilitated Tabletop Exercises to enhance cybersecurity measures, resulting in a **20% reduction** in identified vulnerabilities.

Lead Stack Developer *Queen's Vertical Farming Team* *April 2023 – Present*

- Leading a team of 4 developers to redesign the design team website.
- Redesigned the QVFT website in **React**, ensuring real-time visualization and updating of farm data.
- Employed **Flask** to execute back-end development responsibilities.
- Utilized **PostgreSQL** to store and manage incoming readings from the I/O sub-system.

Software Development Lead *Evstry* *January 2024 – Present*

- Evstry is Canada's cash gift registry platform helping hosts create events, track RSVPs, and accept cash gifts digitally.
- Redesigned the Evstry landing page through **Figma**, **Webflow** and **React.js**, increasing user engagement.
- Oversaw and managed a team of software engineering interns, successfully guiding them to complete various projects within tight deadlines.

Teaching Assistant - Programming *Queen's University* *January 2024 – Present*

- TA for APSC 142 (Introduction to Programming for Engineers) for the **C programming language**.
- Guided and supported a cohort of **200 students** in completing in-class assignments during weekly lab sessions, ensuring their comprehension of programming concepts.

Technical Projects

Personal Website Portfolio *Next.js, TypeScript, Redux, Tailwind CSS* *October 2023 – December 2023*

- Developed a dynamic, multipage portfolio website using **Next.js**, utilizing **React.js** and **Tailwind CSS** for frontend.
- Integrated with **Redux** for optimal state management when toggling dark mode.
- Projects and experiences are stored in **JSON**, allowing for dynamic webpages.

Store Website: Spice Mart - Barrie *Tailwind CSS, Next.js, MongoDB* *July 2023 – August 2023*

- Developed a dynamic website allowing clients to view menu items and inquire about promotions using **Next.js** and **Tailwind**.
- Streamlined menu management workflow by integrating a **RESTful API**, resulting in a **30% reduction** in time spent on manual menu updates.
- Implemented a secure and efficient portal for administrators by utilizing **Auth0**, enabling seamless **CRUD operations** and enhancing data management capabilities.
- Successfully implemented **MongoDB Atlas** as the backend database solution, ensuring efficient storage and management of all menu items.

Maze Generator and Solver *C++, Raylib* *February 2023 – April 2023*

- Developed in **C++**, leveraging the **recursive** backtracking algorithm for efficient maze creation and solution.
- Implemented **heuristics** to identify the optimal path for maze traversal, enhancing efficiency.
- Incorporated **stack** and **graph-like structures** to ensure efficient coding and debugging.
- Utilized the **Raylib** library to display and render graphics for an enhanced user experience.

Education

Queen's University – Mechatronics and Robotics Engineering (BASc) *September 2022 – Present*

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Digital Systems, Mechatronics Design, Linear Algebra

- Recipient of the Dean's Engineering and Applied Science Scholarship, Carol Black Family Scholarship, and Principal's Scholarship