Vaishnavi Bharti

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EDUCATION

Dalhousie University Halifax, NS
Bachelor of Computer Science *Aug. 2023 – May 2027*
Awards: Sexton Scholar, Dean's List 2023-24

TECHNICAL SKILLS

Languages: Java, Python, C++, MySQL, JavaScript, HTML/CSS, Clojure, Haskell
Frameworks: React
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Firebase
Libraries: pandas, NumPy, Matplotlib
Operating Systems: Windows, Mac

PROJECTS

Lumora | Next.js, MySQL, React, Figma Jan 2025 – Present
- Developed a full-stack education platform using React, Next.js, MySQL, and Figma, collaborating with a team of 4 members
- Designed high-fidelity UI/UX prototypes in Figma for 5+ web pages
- Developed a responsive React front-end aligned with Figma design, enhancing cross-device usability and user experience.
- Implemented Next.js CRUD backend APIs with authentication, user management, course content, and quiz features
- Designed and implemented a MySQL relational database schema to support backend business logic
- Focused on scalability, maintainability, and adherence to **SDLC** best practices.

Brew Buzz | React, MySQL, API, Figma, Firebase Sep 2024 - Dec 2024

- Developed a **responsive web-based café/restaurant discovery platform** for Halifax with a **swipe-based feature** using **HTML, CSS, and JavaScript**.
- Designed **high-fidelity UI/UX prototypes in Figma** for 5+ web pages.
- Implemented the **backend logic using JavaScript** with **Firebase for secure authentication**
- Integrated **OpenStreetMap (Overpass API)** to query and aggregate real-time café/restaurant data, transforming results into structured JSON for application use.
- Enhanced the user experience by incorporating the **Unsplash API** to display high-quality images of cafés/restaurants using the ingested data.

Json Parser | Python

- **Developed** a custom JSON parser in Python that validates input JSON and **generates an Abstract Syntax Tree (AST)** when the input is semantically correct.
- **Implemented** lexical scanning and semantic analysis modules to ensure strict adherence to JSON structure and syntax rules.
- **Enabled** execution via both **command line** and **IDE workflows**, supporting flexible usage for different development environments.
- **Optimized** usability by allowing developers to directly run Semantic.py and receive instant validation feedback on JSON inputs.

Volunteering

Staff Volunteer August 2025
DevOpsDay *Halifax, NS*
- Supported with event setup, AV, and logistics to ensure smooth execution.
- Assisted with attendee registration and guided participants throughout the event.
- Coordinated meal and catering arrangements to ensure a positive guest experience.
- Captured event media and created social posts to increase visibility and engagement.

Ambassador   Jun. 2025 – Present
Atlantic Tech Talk   *Halifax, NS*
- Supported with event setup, AV, and logistics to ensure smooth execution.
- Captured event media and created social posts to increase visibility and engagement.
- Contributed to initiatives promoting women in computer science and technology.