Abhin Tomar

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EDUCATION

UNIVERSITY OF TORONTO — Mississauga, ON
BSc. Honours Computer Science with Computer Science Specialization — Sept 2021 - April 2025

Coursework: Data Structures and Algorithms; Software Design; Software Tools and Systems; Information Security; Computational Probability; Calculus of Several Variables; Linear Algebra
GPA: 3.87/4.00

SKILLS

Languages: Python, Java, C, C++, Bash, Racket, Haskell, SQL
Web Development: React, JavaScript, HTML/CSS, Flask, Node.js, Express.js
Technologies: Git, Github, Linux, Unix, MongoDB, Firebase

PROJECTS

IMAGEVAULT — React, Javascript, Firebase | Jul 2023 - Sep 2023

A chrome extension that allows seamless saving and sharing of images on the web.

- Designed a user-friendly interface with **drag-and-drop functionality** for effortless image uploading and organization.
- Integrated **Firebase** for user data storage, ensuring efficient retrieval of saved images, while also implementing **Google authentication** to enhance security and simplify user access.

FACE FINDER — React, Javascript, Node.js, Express.js | Jul 2022 - Dec 2022

A full-stack application with advanced facial recognition capabilities, facilitating face-to-name associations through integration with Google image search.

- Expanded functionality by introducing a "local" feature, enabling users to effortlessly archive images into a **dynamic database** for future reference and search purposes.
- Utilized an algorithm to extract popular names from image search results, optimizing the application's ability to provide meaningful results.

SMARTRACK — Python, Flask | Apr 2023 - May 2023

A web application leveraging computer vision technology to monitor and categorize packages in real-time on a conveyor belt, as captured by video feed.

- Implemented advanced **machine learning** frameworks, including **OpenCV** and **YoloV8**, to facilitate the precise detection of distinct packages.
- Utilized **Flask** as a component of the application's architecture to transfer data from the back-end to the front-end, ensuring a responsive and efficient user experience.

PERSONAL PORTFOLIO — React, Javascript | Dec 2022 - Jan 2023

A dynamic front-end responsive website showcasing my portfolio.

- Integrated the **'react-intersection-observer'** library, enhancing user experience by enabling automatic scrolling to distinct page sections.
- Developed a user-friendly 'Contact Me' section, allowing visitors to effortlessly reach out via an email form powered by **'Email.js'**.

AWARDS

Dean's List Scholar: Achieved a culumulative GPA of **3.5** or higher in each semester during the year. **2022**
Univerisity of Toronto MCS Honour Roll: Obtained a grade of **90%** or greater in three or more Mathematical and Computational Sciences courses during the year. **2022**
University of Toronto Entrance Scholarship: Achieved an admitted average of 95% or higher and maintained a culumulative GPA of **3.7** or higher in each semester during the year. **2021 - 2023**