

ABHIN TOMAR

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EDUCATION

UNIVERSITY OF TORONTO

BSc. HONOURS COMPUTER SCIENCE WITH COMPUTER SCIENCE SPECIALIZATION

Mississauga, ON

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.
- 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, establishing face-to-name associations through integration with Google image search.

- Expanded functionality by introducing a "local" feature, enabling users to save 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 applying 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 enhance the precise detection of distinct packages.
- Incorporated **Flask** into the application's framework 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 reach out via an email form powered by '**Email.js**'.

AWARDS

Dean's List Scholar: Achieved a cumulative GPA of **3.5** or higher in each semester during the year.

2022

University 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 cumulative GPA of **3.7** or higher in each semester during the year.

2021 - 2023