Kartik Chaudhari

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EDUCATION

Bachelor of Engineering in Software Engineering   Sept 2020 – May 2025 (Expected)
McMaster University

- Dean's Honor List, International Student Award | **GPA: 3.9**
- Key Achievements: Best Engineering Award among 1200+ students, Engineering Ambassador, Teaching Assistant for **AI** and **Machine Learning**, Research Assistant for **Cloud** and **Back-end** Tech, Google Student Developer Club, **Winner** of **North America's** largest AI **Hackathon** sponsored by Google and IBM, **Winner of Duke Hacks** among 1500+ students, Vice President of Math Research Team. A **Leetcode** and a Hackathon Enthusiast.

EXPERIENCE

Research Assistant - Software Development   Jan 2022 – Present
McMaster University   *Ontario, Canada*

- Developed a **full-stack web** application to help users conveniently generate meal ideas on a daily basis.
- Built a **REST API** back-end with **Express**, and **MongoDB** to add **CRUD** functionality to the app.
- Sent HTTP requests using **Axios** to connect client with server and used **Postman** to perform **100+** API tests during development. Revamped visually appealing sites making the audience rate go higher by **45%**.
- Constructed a **React** front-end with **React Router** for client side routing and **Bootstrap** to generate simple stylized elements. Directed the team to deploy projects on cloud servers like **Digital Ocean** and **AWS**.
- Implemented an **authorization** system with **bcrypt.js** and **JWT** Authentication increasing user security and protection. Generated various models using ESG data while performing a quantitave research.

Software Developer Intern   May 2021 – Sep 2021
Tradify Services   *Doha, Qatar*

- Built a **social media website** that allows users to log in, sign-up for an account, post, visit other existing accounts, and edit their profile, reducing data usage by **25%**
- Developed **APIs** using **MongoDB**, **Express**, and **Heroku** that stores user information, and posts information with CRUD implementation on cloud services including **AWS** and **Google Cloud**.
- Created a **Spotify Clone** which shows the user's playlists, top tracks, top artists, and recently played tracks.
- Led a team of **15** developers to deploy a Connect 4 application using **Java**, allowing 2 users to play a game of Connect 4. Engineered Behavioural Analysis and Hardware Authentication, increasing security by **25%**.
- Incorporated **Object Oriented Programming** practices to create a player and chip class that stored data for the 2 players and each of the chips on the board, increasing **scalability** of the codebase.

PROJECTS

Allergy Aware | *Python, Flask, React, PostgreSQL, Docker, AWS*

- Designed an app using **Flutter** targeted at people with allergies or dietary/religious restrictions to use and identify potential risks in a product with **90%** user satisfaction rate.
- Utilized pen **Food Facts API** to pull the ingredients from the **barcode** associated with the item and analytically cross match it with the users allergies in order to find similarities.
- Next step is to implement an **image recognition** system to identify a product from a picture rather than scanning a barcode to pull the name of the product, using problem solving skills.

Drink Desire | *Flutter, Angular, HTML5 & CSS, JavaScript, Tensorflow*

- Designed a creative **app** and **website** to reduce the time needed to order drinks while at work by up to 2 minutes per person while removing any interaction with a co-worker.
- Implemented an authorization as well as a **sign up** system using the **Firebase Authentication API** capable of hosting 30 people at a time, with a great team and excellent communication.
- Modelled a simple and interactive **UI/UX** for any age group to use in order to bypass the **technological limitation** of co-workers. Incorporated **Chef** and Solr technologies in the application.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, REST APIs, AWS, Azure
Developer Tools: Git, Postman, Heroku, Visual Studio Code, PyCharm, Eclipse, Slack, Linux