ARADHYA SINGH

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EDUCATION

Bachelor of Science in Computer Science   2019 – Dec 2023
York University   *Toronto, ON*

SKILLS

Java, Python, JavaScript, Typescript, SQL, React.js, Next.js, Node.js, Springboot, Firebase, Selenium, Bash, REST APIs, GraphQL

EXPERIENCE

Quality Engineering Intern   Jan 2023 – Present
theScore   *Toronto, ON*
- Conducting cross-platform testing for 15 builds of Score Media and Score Bet apps (Android, iOS, and Web) to assess readiness for production releases.
- Developing test cases in **TestRail** and executed test plans to ensure high-quality feature delivery, Developed test cases for automation, resulting in 50% new automated tests being added to the suite every release.
- Collaborating with 7 cross-functional teams via **Jira** to ensure adherence to best practices and standards in QA. Maintained a defect rate of less than 40 for each release.

Software Developer   Jan 2023 – Present
Fibra Inc.   *Toronto, ON*
- Developed the Fibra App utilizing **React Native** to design and implement an efficient user experience designed in **Figma**.
- Created and integrated **RESTful APIs** using **Node.js** and **Firestore**, resulting in a 25 % improvement in data retrieval time.
- Developing user authentication and security features using **Firebase Auth** and **Firestore** Security Rules, resulting in a 100% secure and private storage of user data and a 50% decrease in unauthorized access attempts.

Software Developer, Tech Lead   May 2023 – Present
York University : yuHacks 2023   *Toronto, ON*
- Developed and led the implementation of yuHacks website using **Typescript**, and **Next.js** for sponsor, hacker and volunteer registration and management.
- Integrated **GraphQL** seamlessly into the **Node.js** backend, enabling the admin dashboard to efficiently manage and display all details related to the hackathon.
- Used **MongoDB** effectively for data storage, ensuring a reliable and scalable system to support all registration processes and information handling.

PROJECTS

API Generator ⬀ | *Javascript, Node.js, Express, MongoDB, GraphQL, React, TailwindCSS*
- Developed a full stack web application using **JavaScript**, **Node.js**, **Express**, and **MongoDB**, allowing users to create personalized APIs. Implemented API endpoint customization and offline code download feature for enhanced convenience..
- Incorporated secure user registration and login system using **JWT**-based authentication. Ensured data privacy and empowered users to securely manage their API details.
- Implemented **GraphQL** and **MongoDB** for scalable API management. Built flexible APIs with specific data requirements and effectively managed user and API data for optimal performance.

CSHub: Local Hack Day Website ⬀ | *Javascript, React.js, Bootstrap*
- Designed and developed the Local Hack Day hackathon website for CSHub at York University using **React.js**, **Bootstrap** and **JavaScript**.
- Applied responsive design and user-friendly features to enhance user experience and utilized Figma to create website templates while collaborating with the team to ensure the website met the organization's needs.

Face Track Attendance ⬀ | *Python, openCV, face recognition*
- Implemented a **Python** program using **OpenCV** and **face recognition** libraries to recognize faces in a webcam.
- Defined a function to generate face encodings for a list of known images and used the encodings to compare against faces detected in the video frames and saved the attendance data to a .csv file, if a match was found and timestamped with the current time.

Sorting Algorithm Visualizer ⬀ | *Javascript, React.js, HTML, CSS*
- Developed a sorting visualizer that implements the Bubble Sort,Insertion Sort, and Selection Sort algorithms and uses array visualization to show the sorting process.
- Used **JavaScript** for the implementation of the sorting algorithms and **React** for the frontend.

COMPETITIONS

For The Horses ⬀ | First-Prize | *Javascript, React.js, Node.js, Express, Bootstrap*   yuHacks 2022

- Participated and led a team of 4 to develop a web app to improve the process of matching animals in rescue centers with potential forever homes using **Node.js** and the **Express** framework.
- Implemented search feature using JSON file to store data, built organization dashboard with adopter profile creation and matching process, and added messaging feature.