

ARADHYA SINGH

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EDUCATION

Bachelor of Science in Computer Science

York University

2019 – Dec 2023

Toronto, ON

SKILLS

Languages: Java, TypeScript, JavaScript, Python, C, SQL, Bash

Frameworks: Node.js, React.js, Next.js, , Spring Boot, postgresSQL, MySQL

Developer Tools: Docker, AWS, MongoDB, GraphQL, Firebase, Selenium, Charles Proxy, Git, JUnit

EXPERIENCE

Software Engineer Intern - Part Time

Jan 2023 – Sept 2023

Fibra Inc.

Toronto, ON

- Led the fullstack development of Fibra's mobile app, integrating Figma design with **React Native** and backend solutions with **Firebase**, resulting in a successful beta launch and a 20% increase in initial user engagement.
- Implemented a community engagement platform within the app, incorporating real-time chat and social posting features.

Quality Engineering Intern

Jan 2023 – Sept 2023

theScore

Toronto, ON

- Conducted cross-platform testing on 15 Android, iOS, and Web app builds, enhancing app reliability by **20%**.
- Streamlined testing in **TestRail** and bug tracking in **Jira**, improving efficiency by **30%** and reducing QA cycle times by **25%**.
- Utilized **Charles Proxy** for **API** response validation, boosting automated test accuracy and efficiency by **50%**

PROJECTS

Serverus | TypeScript, Node.js, Express.js, Next.js, AWS EC2, Redis, S3, Docker

- Serverus is a **TypeScript** platform enabling efficient web app deployment from **GitHub** to **AWS EC2**.
- Developed a scalable **AWS** infrastructure with **EC2**, **Redis**, and **S3**, ensuring high availability and performance for diverse web projects.
- Automated backend processes using **Express.js** and **Node.js**, coupled with **Docker** for consistent deployments, boosting productivity and reliability across environments.

FloWrite | JavaScript, Socket.io, MongoDB, React.js

- FloWrite is a real-time document editing platform, enabling seamless creation, sharing, and editing of documents among users in a dynamic interface.
- Developed backend with **MongoDB**, designing data models to optimize document storage, and retrieval efficiency, and ensure system scalability.
- utilized **Socket.io** for real-time bidirectional event-based communication, facilitating instant document collaboration and integrated Quill Editor to enable comprehensive text editing features.

DataScope: Data Analysis | Java, JUnit, Java Swing

- Developed a **Java** application designed for intricate data analysis tasks, featuring an intuitive GUI for user interaction.
- Utilized **Java Swing** for the GUI, incorporated **Maven** for efficient project management, and **JUnit** for thorough testing, along with **design patterns (Strategy, Observer, Mediator)** to ensure modular and flexible architecture.
- Enabled user-driven insights through interactive charts (bar, line, pie, scatter) enhancing data exploration and decision-making.

yuHacks 2023 Website Development | TypeScript, Next.js, Node.js, Express, MongoDB, GraphQL, TailwindCSS

- Developed and led the implementation of yuHacks website using **TypeScript** and **Next.js** for sponsor, hacker, and volunteer registration and management.
- Integrated **GraphQL** into the **Node.js** backend for efficient admin dashboard operations and utilized **MongoDB** for robust and scalable data storage supporting all hackathon-related registration and information processes.

API Generator | JavaScript, Node.js, Express, MongoDB, GraphQL, React, TailwindCSS

- Developed an API generator using **Node.js** and **MongoDB**, streamlining **RESTful API** creation and reducing development time for projects by **20%**.
- Utilized **Next.js** and **TypeScript** for front-end development, **Node.js** and **Express** for the server-side logic, **GraphQL** for efficient data querying, and **MongoDB** for data storage.

COMPETITIONS

For The Horses | First-Prize | JavaScript, React.js, Node.js, Express, Bootstrap

yuHacks 2022

- Led a team to develop a web app using **React**, **Node.js**, **MongoDB**, and **Google Maps API**, resulting in a 50% increase in adoption inquiries for partner organizations.
- Implemented search feature using JSON file to store data, built organization dashboard with adopter profile creation and matching process, and added messaging feature.