# Aradhya Singh

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## Education

**Bachelor of Science in Computer Science** Sept 2019 – Apr 2024
*York University* *Toronto, ON*

## Skills

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

**Frameworks:** Next.js, Node.js, React.js, Prisma, tRPC, Spring Boot, PostgreSQL, MySQL

**Developer Tools**: AWS, Docker, Git, GitLab, GraphQL, MongoDB, Firebase, Pinecone, LangChain, Selenium, Charles Proxy, JUnit

## Experience

**Software Developer** Sept 2023 – Jan 2024
*yuHacks - Hacakthon* *Toronto, ON*

- Led development of the yuHacks portal, enhancing the registration system for over 500 participants, and facilitating efficient sponsor, hacker, and volunteer management using **TypeScript** and **Next.js**.
- Implemented **GraphQL API** within a **Node.js** backend, reducing data retrieval times by **30%** and improving admin efficiency in managing event logistics. Utilized **PostgreSQL** for scalable and reliable data storage.
- Coordinated with **UI/UX** designers to translate user requirements into a responsive and intuitive interface, increasing user satisfaction by **25%**, and conducted rigorous testing to enhance application stability and security.

**Software Engineer Intern - Part Time** Jan 2023 – Sept 2023
*Fibra Inc.* *Toronto, ON*

- Developed Fibra's mobile app, integrating Figma designs with **React Native** and backend solutions with **Firebase**, resulting in a **20%** increase in initial user engagement post-beta launch.
- **Architected** and implemented a community engagement platform featuring real-time chat and social posting, significantly enhancing user interaction and retention.

**Quality Engineering Intern** Jan 2023 – Sept 2023
*theScore* *Toronto, ON*

- Conducted **Regression** and **Smoke** testing on **UAT**, **staging**, and **production** environments for Android, iOS, and web applications, significantly enhancing app reliability by **20%**.
- Streamlined QA processes using **TestRail** for testing and **Jira** for bug tracking, resulting in a **30%** increase in efficiency and a **25%** reduction in QA cycle times.
- Improved automated test accuracy and efficiency by **50%** through effective use of **Charles Proxy** for API response validation.

## Projects

**PageMind** | *Typescript, Next.js, Prisma, LangChain, Pinecone, tRPC, Zod, Kinde, Stripe, shadcn-ui*

- Developed **PageMind**, an **AI**-driven platform for real-time interaction with PDF documents, using **LangChain** for intelligent content responses and **Pinecone** for efficient vector storage.
- Built with **TypeScript** and **Next.js** for the frontend, **Prisma** for DB management, and **tRPC** and **Zod** for secure and efficient data handling; integrated **Kinde** for auth and **Stripe** for payment processing.

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

- **Serverus** is a **Next.js** platform to automate web app deployment from **GitHub** to **AWS EC2**, optimizing deployment processes.
- Constructed the backend with **Node.js** and **Express.js**, leveraging **AWS EC2** for hosting, **Redis** for caching, **S3** for storage, and **Docker** for containerization, ensuring scalable and reliable infrastructure.

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

- **Flowrite** is a real-time document editing platform that enables seamless creation, sharing, and editing of documents, facilitating interactive collaboration among users.
- Constructed the backend with **Node.js**and **MongoDB**, utilizing **Socket.io** for real-time, bidirectional communication and designed the frontend with **React.js** to provide a dynamic and responsive user interface.

**DataScope: Data Analysis** | *Java, JUnit, Java Swing*

- Developed a **Java** application designed for intricate data analysis tasks, featuring an intuitive GUI for user interaction.
- Built using **Java Swing** for the GUI and employed **Java Design Patterns (Strategy, Observer, Mediator)** for a modular and flexible architecture; ensured reliability through comprehensive testing with **JUnit**.
- Enabled user-driven insights through interactive charts (bar, line, pie, scatter) enhancing data exploration and decision-making.