

Prakarsh Kamal

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EDUCATION

McMaster University

Sept 2019 – Aug 2024

Bachelor of Applied Science, Honours Computer Science (Co-op), **GPA: 3.7/4.0**

Relevant courses: Data Structures & Algorithms, Software Testing, Object-Oriented Programming, Concurrent Systems, Databases

PROFESSIONAL EXPERIENCE

Vena Solutions, Toronto, ON

May 2022 – Aug 2023

Software Developer Co-op [React, JavaScript, Java, TypeScript]

- Implementing modeler features using React on Vena's **SaaS** web application used by **1200+** customers across **10+** industries
- Programmed unit tests for modeler utilizing React Testing Library and Jest to achieve **85%** test coverage
- Spearheaded the work for a front-end skeleton in the delivery of a new **MVP** - Quick Start Wizard model flow which helped to reduce TTV (Time to Value) by **127** hours
- Developed a TypeScript Progress Bar Component for our in-house UI Library which is deployed and used by **8** different teams
- Refactored client model DTOs in Java which send information to front-end allowing users to distinguish a **Standard Model**
- Led end-to-end overhaul of Settings page: migrated from Backbone.js to React, significantly reducing technical debt and enhancing system performance
- Led a team of **8** developers as Scrum Master in Q3 with responsibilities including ticket pointing, collaborating with Product Manager/Tech Lead, and obeying agile best practices

Giden, Toronto, ON

Sept 2020 – Dec 2020

Front-end Developer Intern [React, JavaScript]

- Developed front-end components such as the sidebar and navigation bar using React
- Utilized media queries to support a responsive user experience for **20%** of the mobile audience
- Tested the **2** components with spec files to ensure robust functionality

PROJECTS

- **Ripe Mangoes** [Java, Spring Boot, MongoDB, React] Jan 2023
 - Developed a Full Stack movie review app by creating an API and **2** endpoints using Java and Spring Boot
 - Created a MongoDB database which connects to the REST API allowing for database retrieval and updates using HTTP GET and POST
 - Built the front-end using React to create a **loosely coupled** architecture between client and server code
- **The Daily Edition** [TypeScript, Next.js, React, mediastack API, GraphQL, Tailwind CSS, StepZen] Jan 2023
 - Coded a news app which pulls in live data from the mediastack news API to display on the front-end built with TypeScript, React, Next.js and Tailwind CSS
 - Employed GraphQL queries to filter **10** properties from the API like image, author, title, description, country, timestamp etc. that route to a custom-built endpoint in StepZen
 - Added search and news categories with incremental static regeneration on **7** pre-built pages which cache the data every **30 seconds** increasing build times by **20%**
- **Hydronizer** [JavaScript, React, Python, HTML/CSS] Jan 2021
 - Innovated the idea of smart solution to set reminders for regular water breaks
 - Created google chrome extension in JavaScript to interrupt user's screen and initiate **30 minutes** timer
 - Utilized REST APIs to send and receive metric information from backend to frontend
- **Rock, Paper, Scissors** [Java, JUnit] Oct 2020
 - Developed Java program to parse user input and evaluate output on rules of rock, paper, scissors
 - Implemented the stack data structure as an input validation technique on **3** types of parentheses
 - Designed various test and edge cases using JUnit **unit tests** to output results to terminal

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, TypeScript, SQL, NoSQL, C, HTML/CSS, Sass, Tailwind CSS, Bash
- **Frameworks/Technologies:** React, Node.js, Next.js, Redux, MongoDB, GraphQL, Spring Boot, Django, Jest, JUnit, Selenium
- **Developer Tools:** Git, Jira, IntelliJ, VSCode, Linux, PowerShell, AWS, Jenkins, Postman, Docker

CERTIFICATIONS AND AWARDS

- **Amazon Web Services (AWS) Certified Cloud Practitioner (CLF-C01)** July 2022
- **McMaster Dean's Honor List** May 2021 / 2022