Prakarsh Kamal

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EDUCATION

McMaster University   *Sept 2019 – May 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

EXPERIENCE

Vena Solutions, Toronto, ON   *May 2022 – Aug 2023*
Software Developer Co-op [React, JavaScript, TypeScript, Java, SQL]
- Implemented 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 **5** 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, reducing technical debt and enhancing render times from **100 milliseconds** to **15 milliseconds**
- Led a team of **8** developers as Scrum Master in Q3 overseeing planning, estimation and refinement, 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

Finddit [React Native, Node.js, REST, Firebase, Google Cloud, Expo]
- Programmed a mobile application that enhances group decision-making for restaurant selection
- Implemented a custom cost optimization algorithm to rank restaurants from user preferences, boosting satisfaction by **40%**
- Leveraged Google Maps API for location-based restaurant recommendations, cutting search time by **25%**
- Increased user engagement by **50%** by creating a swipeable restaurant card stack and group leaderboard

Ripe Mangoes [React, Java, Spring Boot, MongoDB]
- Developed a Full Stack movie review web application by creating **2** API endpoints using Java and Spring Boot
- Created a Mongo cluster which connects to the REST API allowing for database retrieval and updates using 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, REST, GraphQL, Tailwind CSS]
- Coded a news app which pulls in live data from the mediastack news API to display on the front-end
- 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]
- 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

TECHNICAL SKILLS

- **Languages:**   Java, JavaScript, Python, TypeScript, SQL, NoSQL, C, HTML/CSS, Tailwind, Bash
- **Frameworks/Technologies:** React, Node.js, Next.js, Redux, MongoDB, GraphQL, Spring Boot, Django, Jest, JUnit
- **Developer Tools:**   Git, Docker, Postman, Jenkins, REST, AWS, Firebase, Google Cloud, Expo

CERTIFICATIONS AND AWARDS

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