Pradhapan Rajendran

Software Engineer · Computer Science Major and Mathematics Minor ⬡ University of Guelph

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Skills

Languages	Python, C#, JavaScript, Java, C, C++, Ruby, SQL
Web Development	React, TypeScript, Node.js, Express, NestJS, Ruby on Rails, HTML/CSS
Technologies	Git, MySQL, PostgresQL, MongoDB, Jenkins, Docker, Postman, AWS, Bash, Gradle

Work Experience

ApplyBoard
Waterloo, ON

Software Engineer Intern · *Sept. 2021 to Dec. 2021*

- Improved efficiency and readability of old **React** modules by refactoring with modern practices (**React Hooks**, functional components)
- Implemented API microservices in **NestJS** and in **Ruby on Rails** services to transfer multipart form data across applications
- Designed the **server architecture** for a data import service, and created load tests in **k6** to ensure smooth performance and reliability
- Created unit and integration tests for various components using **RTL** and **Jest**, leading to **80%** or greater code coverage across several pages
- Composed high level design documentation in **Confluence** and managed an epic in **Jira** for a priority feature to organize development workflow
- Implemented precision event tracking to capture user flow and actions with **custom hooks** in React

Edge Gamers Lounge
Green Bay, WI (Remote)

Freelance Software Engineer · *Feb. 2021 to May 2021*

- Used **JavaScript** and **Node.js** to create a Discord Bot to allow for simple handling and viewing of player data and statistics in the game League of Legends.
- Utilised **MongoDB** to store player info in customized document schemas, which were then exported in JSON format to volunteers for interpretation of statistics.
- Deployed and managed Linux servers on **Amazon EC2**, and setup a **CI/CD pipeline** with AWS CodePipeline.

Education

University of Guelph
Guelph, ON

Bachelor of Computing, Honours Computer Science (Co-op) · *2019 - 2023 (Expected)*

- Pursuing a Minor in Mathematics

Projects

Personal Website

React, Next.js, HTML/CSS

- Created a website with **React** to display what I have done and learned in the past 3 years as a software engineer.
- Used **styled-components** to format **CSS** neatly and to improve readability of React components
- Implemented server-side rendering with **Next.js** to optimize performance on all devices

GPXParser

C, JavaScript, JQuery, Node, Express, Ajax, mySQL

- A **full stack** application for providing users a simple interface for managing and editing GPX files.
- File parser was written in **C** and connected to back-end API with the ffi-napi library.
- Back end was managed with **Node** and **Express**, connected to a **mySQL** database for storage of user files between sessions.

LeagueWatcher

Python, Rest API, HTTP Requests, Object Oriented Programming

- Created a package for **Python** developers to easily create and manipulate requests made to the League of Legends API.
- Wrote and maintained unit testing with **pytest** to mock API calls and simulate the response body.
- Designed with key **object oriented programming** concepts in mind to maintain code for open source development.

Extracurricular Activity

Society of Computing and Information Science

Member

- Participated in various competitions, including the Bachelor of Computing Discord Hackathon where I achieved 3rd place for my **Discord Bot**
- Actively attended meetings and presentations and contributed meaningfully to conversations surrounding important technologies prevalent in University of Guelph computer science courses.