Pradhapan Rajendran

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EDUCATION

University of Guelph — Guelph, ON
Bachelor of Computing, Computer Science — *Sept. 2019 – May 2024 (Expected)*

- **Relevant Coursework:** Analysis and Design of Algorithms, Data Structures, Software Systems Development and Integration, Object Oriented Programming, Operating Systems

EXPERIENCE

Software Development Engineer Intern — May 2022 - Aug. 2022
Amazon — *Vancouver, BC*

- Incoming software development engineer intern in Summer 2022.

Software Engineer Intern — Sept. 2021 – Dec. 2021
ApplyBoard — *Waterloo, ON*

- Refactored old **React** modules in **Typescript** with modern practices (functional components, hooks) resulting in improved readability and **50%** faster load times.
- Constructed API microservices in **NestJS** and **Ruby on Rails** applications to transfer multipart form data.
- Implemented precision event tracking to capture user flow and actions with **custom React hooks**.
- Built unit and integration tests using **RTL** and **Jest**, leading to **80%** or greater code coverage.
- Designed the **server architecture** for a data import service and created sequence diagrams with **UML**.
- Managed an epic in **Jira**, and created design documentation in **Confluence** to organize development workflow.

Freelance Software Engineer — Feb. 2021 – May 2021
Edge Gamers Lounge — *Green Bay, WI (Remote)*

- Used **JavaScript** and **Node.js** to create a Discord Bot to allow for handling of **500+ users** game data and statistics in 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** server on **AWS EC2**, and setup a **CI/CD pipeline** with AWS CodePipeline.

PROJECTS

GPX Parser | *C, JavaScript, Node.js, Express, jQuery*

- Developed a **full stack** CRUD application that provides users a simple interface for managing GPX files.
- Wrote a file parser in **C**, and connected it to back end API with the ffi-napi library.
- Created back end with **Node** and **Express**, linked to a **MySQL** database for storage of user files between sessions.

LeagueWatcher | *Python, pytest, Riot API*

- Built a package for **Python** developers to create and manipulate requests made to the League of Legends API.
- Used **test driven development** principles with **pytest**, built unit and integration tests for the package.

University Store | *Java, Swing, JUnit, Gradle, Object Oriented Programming*

- Assembled a mock university online store with **Java Swing** for selling school supplies.
- Used OOP concepts including inheritance, abstraction, and encapsulation when making classes.

Pokeflutter | *Flutter, Dart, Mobile Development*

- Made a **mobile app** with **Flutter** to simulate a Pokédex with information on the original 151 Pokémon.
- Used Pokémon API to retrieve images and data remotely to keep app lightweight.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C#, Java, Ruby, C++, C, Dart, SQL
Frameworks: React, Node.js, Express, NestJS, Flutter, Ruby on Rails, Flask, JUnit
Developer Tools: Git, Docker, Jenkins, MySQL, PostgresQL, MongoDB, Postman