Anandamoyi **Saha**

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Github account: https://github.com/anandamoyi

Github Project: https://github.com/McGill-ECSE321-Winter2021/project-group-15

OBJECTIVE

Seeking a summer internship and interested in learning the various applications of computer engineering in different industries, in a professional environment and in the world.

EDUCATION

Bachelor of Engineering, Computer Engineering 2019-2022(expected)
McGill University Montreal, QC
Relevant courses taken: Introduction to Software Development (Completed), Introduction to Computer Science (Completed), Model-Based programming (Completed), Design principles and Methods (Completed)

Diploma of Collegial Studies (DEC), Health Sciences 2017-2019
Marianopolis College Montreal, QC

TECHNICAL SKILLS

Operating systems: macOS, Windows
Programming Languages: Java, C, HTML, CSS, Javascript, UML
Tools: Eclipse, Spring Tool Suite, Visual Studio Code, Github, Vue.js, Microsoft Office, Google Drive, Umple
Languages: Fluent in English and French

ENGINEERING RELATED EXPERIENCE

Java

- Learned the principles of the Agile Manifesto such as how individuals and interactions are more important than using processes and tools, how a working software that satisfies the customer is more important than comprehensive documentation, and how reacting to changing requirements is more important than following the initial plan.

- Learned several design patterns such as model-view-controller, layered design, repository pattern, client-server and pipe and filter.

- Experienced in object-oriented programming by creating classes and by creating instances of those classes to be used as objects in the code. Used constructor methods to create instances of classes.

- Created instance fields for classes and used constructor parameters to assign values to those fields. Created methods to be used on classes.

- Learned domain modelling with creating classes, attributes for each classes and associations between classes. Learned other concepts such as generalizations, multiplicities and compositions.
- Implemented various types of algorithms such as searching, sorting, dynamic programming, and graph algorithms using data structures such as lists, tables, maps and graphs.

Java school team projects

FlexiBook Application

- Designed the domain model with all the classes, attributes and associations, the user interface, and the controller methods that modifies the domain model and user interface by following the model-view-controller design pattern.

- Implemented a FlexiBook application that has features that keeps track of a business information, business hours, services, customers and appointments made by customers by using Java and Umple.
- Designed a user interface for every feature of the FlexiBook application using JavaFX.
- Wrote unit tests to test every feature of the FlexiBook application by using Gherkins scenarios, Cucumber step definitions and Junit.
- Built project with Gradle.
- Used Github to allow team members to share and access the code on time.
- Wrote javadoc to explain the functionality of classes and methods in programs.

Auto repair shop website

- Organized project by adopting 2 to 3 week sprints and began each sprint by creating backlog tasks and separating tasks amongst team members.

- Created a website that describes an auto repair shop business, the car mechanics and the services of the business and allows customers to book appointments for car repair.
- Implemented the backend with Java and Spring tool suite.
- Tested components of the application using Junit.
- Implemented the frontend with HTML, CSS and Javascript.
- Added a database to the website with Heroku Postgres.
- Coded operations to retrieve and save data in the database by creating CRUD repositories.
- Created service methods that represent the functionalities of the website.
- Used RESTful API to access and use the service methods through HTTP requests.
- Used Github to allow team members to share and access the code on time.
- Wrote javadocs to explain the functionality of classes and methods in programs and created API.

- Built project with Gradle.

Git/Github

- Cloned projects using git from Github to create a local copy and work on the project.
- Experienced in pulling and pushing changes from and to the main branch.
- Experienced in staging and committing changes to the main and other branches.
- Created branches of projects to add personal contributions and parts and merged the branches with the main branch.