AYAZ RAHMAN

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Education:

Monash University, Expected Graduation: Dec 2019
Major: Master of Information Technology

University of California, Los Angeles, Major GPA: 3.58 Graduation: Dec 2014
Major: BS, Electrical Engineering, with CE (computer engineering pathway)

Work Experience:

Data Migration and Configuration Specialist, Ellie Mae May 2015 – Jun 2016 (CA, USA)

- Migrate data from self-hosted systems to Ellie Mae servers ranging from several gigabytes to terabytes per customer
- Encrypting data to avoid loss of sensitive loan data and contacts using a locally built encryption system
- Configured and mapped migrated DATA using shell scripts according to the Encompass version setting to avoid files or data being corrupted
- Managing and scheduling data migration projects using Salesforce and Office 365
- Training multicultural groups of new employees on the migration process flow and system structure and creating documentation for the new process
- Leveraged Knowledge: Shell Scripting, SQL, Microsoft SQL Server, Python, Git, Python Unit test, Salesforce, Excel.

Web Developer Intern, sBIT Inc. Jan 2015 - Apr 2015 (CA, USA)

- Implemented a news management platform using ASP.NET framework.
- Integrated SendGrid enabling users to send emails to the subscribers effortlessly
- Designed RESTful backend for an online market project, enabling the client to manage product through their front end
- Leveraged Knowledge: Full Stack Development, ASP.NET, C#, HTML5, CSS, JavaScript, SQL, Python, flask, Git, API integration.

Projects:

Calorie Tracker, Android application:

Implemented a calorie tracking application that allows user to keep track of the amount calories and fat consumed through out the day. The app uses several APIs to support a number of functionalities. It uses the fatsecret API to get all the calorie information about the food, uses google custom search API to retrieve useful information about the food and display a relevant image, uses Broadcast receiver to save user report at the end of the day, uses google maps and geocoding to display the users location and nearby parks around the user's location. The app also uses asynchronous functions to get and save user information to the database.
Utilized: Android Studio, Database, API, calorie calculation formulas, asynchronous tasks, Java, Git.

NeuroEvolution Flappy Bird, Web application:

Implemented a flappy bird clone using p5.js. Then used the clone to train the bird using neuroevolution to play flappy bird by itself. Used tensorflow.js to create a neural network which is embedded in every bird object to make a decision. Then used genetic algorithm to train the neural networks of the birds that trained them to play the flappy bird game. Initially all the birds make random decisions. After every generation, I took the best performing birds and created their offsprings to generate new population. After every generation, it started performing better until it reaches a saturation point.
Utilized: p5.js, tensorflow.js, JavaScript, genetic algorithm, neural network

StayFIT, Web Application:

Implemented a web application that allows users to track their daily calorie need and find out recommended healthy places to eat on a map. Utilized ASP.NET to implement the full website and integrated APIs like Chart.gl, mappify and mapbox to implement an interactive user experience. The user can see the daily calorie change over time on a chart and he can also find and route to recommended healthy places to eat on map from his current location.
Utilized: ASP.NET framework, C#, HTML5, CSS, JavaScript, API integration, RESTful service, Git.

Inventory Management System, Java Application:

Implemented an inventory management system that also allows the customer to order stuff from the inventory and gives the owner order management options. Used Java and IntelliJ as IDE and utilized Hibernate as ORM and GUI designer to form the complete application. Applied object-oriented design principles to design and make an effective backend. Incorporated jUnit5 and maven to do unit testing on the system and made quality assurance.
Utilized: Java, Hibernate ORM, IntelliJ, jUnit5, Maven, Testing and Quality Assurance principles, Git for source control.

Ridekeeper, IOS Application:

Developing an IOS based application software in a team, that can track stolen bikes and notify users about stolen bikes around them. Uses geotracker that senses movements of the bikes and push notifications and other alert systems built in an iphone to alert users. Can track bikes in real time without any significant delay.
Utilized: Objective-C, Maps, GIT, Geotracking

Software: Java, Python, C++, C#, Git, SQL, HTML5/CSS, JavaScript, UNIX shell scripting.
