Divya Balamurugan

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Education

2012–2016	B.E in Computer Science and Engineering from College of Engineering Guindy , Anna University, Chennai **CGPA 8.8**
2010-2012	H.S.C, SitaDevi Garodia Hindu Vidyalaya Matriculation Hr.Sec.School, Chennai, **97%**.
2009-2010	S.S.L.C, SitaDevi Garodia Hindu Vidyalaya Matriculation Hr.Sec.School, Chennai, **95.4%**.

Work Experience

Application Engineer
Amazon Development
Centre, Chennai
August 2017 - Present

- Experienced **Senior Software Developer** with strong knowledge in **Angular JS,Javascript,Jquery**.
- Developed **Activity Templates** which are used as an exercise activities in k-12 solutions using **Angular JS**.
- As a Senior developer of the team, developed the **Architecture** for **Activity templates** and implemented the common base code generic for all the templates and guided junior developers regarding **angular JS framework** to accomplish and meet the requirements as expected.
- Developed Simulations for Lab experiments using javascript and integrated with **TeachNext** Desktop application.
- Closely worked with Core Service Team and had a hands-on experience in developing **Web Application(Java).**

R&D Engineer
Next Education Private
India Limited, Hyderabad
June 2016 - July 2017

- Experienced **Senior Software Developer** with strong knowledge in **Angular JS,Javascript,Jquery**.
- Developed **Activity Templates** which are used as an exercise activities in k-12 solutions using **Angular JS**.
- As a Senior developer of the team, developed the **Architecture** for **Activity templates** and implemented the common base code generic for all the templates and guided junior developers regarding **angular JS framework** to accomplish and meet the requirements as expected.
- Developed Simulations for Lab experiments using javascript and integrated with **TeachNext** Desktop application.
- Closely worked with Core Service Team and had a hands-on experience in developing **Web Application(Java).**

Major Projects

Vehicle Detection Using Intelligent Methods

- Developed a system that detects a specific Vehicle based on finding point correspondences using a Vehicle Detection Algorithm.
- The prototype detects a specific object by Preprocessing it followed by Vehicle Detection and Vehicle Classification.
- Vehicle Recognition is done through one of the techniques called SURF (Speeded Up Robust Features) in 3 stages.Feature key points for segmented image and the images in the database are detected, then descriptors are calculated for each feature point and matching algorithms are used for detecting the object.
- OpenCV with JAVA was used for implementing Object Recognition.

Nearest Hospital Finder using GPS

- Developed an Android Application for locating the nearest hospitals using GPS(Global Positioning System) in fraction of seconds.
- The prototype determines the current location and suggest those hospitals which are around 3-4 kms from the present location immediately.
- Applicaion also shows all details about those hospitals to get in contact with them inorder to avoid any fatal loss.

Implementation of Join Operation in DBMS

- Relational Table specifies that the database management system is organized in such a way that there are clear relations defined between different sets of data.
- Developed a program to execute the internal implementation of JOIN operation across Relational tables.
- Inner,Left outer,Right outer and Full outer JOIN in SQL were implemented on those tables using Array of Structures in C.

Technical skills

Languages   C, C++, Java

Framework   Angular JS

Databases   MySQL

Web Development   Javascript, JQuery, HTML, CSS

OS   Linux, Windows

Achievements & Activities

Co-ordinator

- Volunteered and Organised an event 'DATA ADDICTS' in HEADSTART fest,CSE,CBIT.
- Volunteered for the student body organisation 'Open minds'.
- Hosted Events during Intermediate and participated in many elocution competitions and debates.

Awards

- Interviewed by SITI news channel in the INTERMEDIATE for securing 97%.
- Awarded a Shield by C.I of Godavarikhani for securing 97.6% in Intermediate.
- Honoured as the **'Most Responsibile Student'** during my SSC.

Sports

- Won Medals and Certificates in **Throwball** competitions held at both school and college level.