MOHAN VALLIVEDU SUDHAKAR

vsmohan4@gmail.com | MohanVallivedu | vsmohan4 | (281) 912 4659 | Houston, TX, USA

EDUCATION

Master of Science in Computer Science   [GPA: **3.9**]   (EXPECTED) MAY 2021

- University of Houston Clear Lake   HOUSTON, TX
  Coursework: Concurrent Programming, Database Management, Algorithms, Web Applications, Advance Operating Systems

Bachelor of Science in Computer Science and Engineering   [GPA: **4.0**]   MAY 2019
- Sri Venkateswara University   INDIA

TECHNICAL SKILLS

- **Programming Languages:** Java | C# | SQL | JavaScript | ES6
- **Web Development:** Bootstrap | React | Express | Node.JS | ASP.NET (MVC) Core | HTML/CSS
- **Operating System & Databases:** Linux (Ubuntu) | Microsoft MS SQL | MongoDB basic.
- **Management & Deployment:** Git | GitHub | NPM | JIRA | Azure DevOps
- **Methodologies:** Object Oriented Programming | Algorithms and Data Structures | Design Patterns | SDLC | Agile

EXPERIENCE

Software Engineer Intern - BECHT (Houston, TX, USA)   **MAY 2020 - AUG 2020**
- Designed an API to get a list of projects based on the client login token and display the results in the Kendo UI grid table. Allowed 10+ clients to view the final report folder of projects by generating a unique URL pointing to the Egnyte Cloud.
- Optimized 50% load on the data processing by moving data filtering capabilities to back-end service. [LINQ query]
- Improved team efficiency and reduced 80% time and productivity to the internal teams by designing an Automation Tool Excel Add-in, to parse Excel sheet data, making it easier to edit and save the data and generate new sheets with an intuitive User Interface.
- Created a new Register page for Admins in the Subscription Portal which will automatically approve the users, create an account in Key Cloak and assign required groups for users, which saves 50% of the time to Admins.
- Technologies: C#, JavaScript, Node.js, ASP.NET Core, Microsoft SQL Server, Microsoft Azure.

Graduate Teaching Assistant - University of Houston Clear Lake   **AUG 2020 – PRESENT**
- Aiding 50+ Undergrad students in solving their queries, correcting their assignments in Java, Database & Software Design.

Student Diplomat - University of Houston Clear Lake   **SEP 2019 - MAY 2020**
- Responsible for fulfilling functions of The Office of International Admissions and Programs.
- Provided support to current and incoming students by answering their questions, managing their documentation as well as providing customer service to students at the front desk. Performed under stress in a fast-paced environment.

KEY PROJECTS

REMOTE MONITORING OF AIR AND SOUND POLLUTION
- Built a model which has various Sensors to detect Air pollution and Sound levels and send recorded data to Arduino, which then sends data to Thing Speak cloud platform via Wi-Fi Module. Sensors: Arduino, MQ 135 sensor, Sound sensor.
- Tested in our College area and achieved 80% accurate results of measuring pollution levels.
- Technologies: Used Arduino IDE (programming similar to C++), Thing Speak Cloud.

FREELANCERS - CUSTOMERS PLATFORM
- Developed an application to make interaction easy for people to hire Freelancers and to view projects posted by customers. Designed Entity - Relationship diagrams and planned through all steps of SDLC.
- Obtained 10+ users for testing the platform and got feedback about performance and User experience.
- Technologies: ASP.NET MVC, C#, SQL, Visual Studio 2019 and Microsoft MS SQL server Database.

MINI PROJECTS
- Developed a SpaceX launches web app using **React**, Hooks, Express, GraphQL, SpaceX API, Apollo, etc. [Link]
- Designed a Covid-19 Tracker using React, Material UI (for Charts), John Hopkins Covid-19 API. [Link]
- Solved various assignments in C, Java, C#, .NET, etc. like Multithreading, Client-Server, web applications, etc.
- Tic-Tac-Toe (Android), Nim game, connect 4 game using Java & College Graduate Web application with .NET.

ACTIVITIES
- Completed online courses on Core Java, Building on AWS, Software Engineering Process, Web Development, etc. from Internshala, Udacity, Edx platforms, etc. Enrolled in CodePath.org Software Engineering - Technical Interview Prep.