AAYUSH SRIVASTAVA

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EDUCATION

University of Florida | MS Computer Science **2021 – 2023**

Analysis of Algorithms, Programming Language Principles, Database Management Systems

Symbiosis International University, India | BTech Information Technology **CGPA 8/10 | 2017 – 2021**

Data Structures and Algorithms, Operating Systems, Microprocessors, DBMS, Networks, Software Engineering, Programming Paradigms, Object Oriented Design and Analysis, Distributed Systems, Artificial Intelligence, Neural Networks, System Programming

TECHNICAL SKILLS

Languages & Frameworks: *Java, Python, JavaScript, C, C++, C#, SQL, Spring MVC, Hibernate, ASP.NET, Flutter, Android, R*
Big Data: *Google Cloud Firestore, MongoDB, Azure CosmosDB*
Tools: *Microsoft Azure, Google Cloud Platform, MATLAB, SQL Developer, Eclipse, Maven, Pycharm, Microsoft Office Suite, Visual Studio, Visual Studio Code, Slack, Jira, Confluence*
Web Design: *HTML5, CSS3, PHP, AJAX, Bootstrap, REST, XML, JSON, Adobe Photoshop*

PROJECTS

• ***Automatic Grading and Evaluation Platform:*** *Built a Python Flask web application to enable students to take a more comprehensive examination using a personal computer*
- The evaluation platform can automatically grade long text-type answers also along with Multiple Choice Questions
- The platform uses Cosine Similarity along with Term Frequency-Inverse Document Frequency to match student responses with answer keys in a database
- Each answer is assigned a similarity score out of 1 and the answer sheets are graded automatically thus removing the need of manual grading by the instructors
• ***Web Application Database:*** *Built a responsive web application using HTML5, CSS3, Javascript*
- Connected a MySQL database to the website using PHP to perform CRUD operations from the web application
- Added various asynchronous functionalities using AJAX and JSON Parser
• ***Sentiment Analysis:*** *A machine learning model to understand and segregate tweets based on their sentiment*
- The dataset used was 'Sentiment140 1.6 Million tweets' from Kaggle.
- Applied Logistic Regression, Decision Tree Classifier and K-Nearest Neighbors to segregate tweets into positive, negative and neutral sentiments
• ***Recommender System:*** *Built a shopping recommender system in R*
- The system is based on the 'Market Basket Analysis' algorithm and recommends users items based on the items currently in their shopping cart
• ***ASP.Net MVC Template:*** *A ready to use ASP.NET MVC Template using Visual Studio*
- The template is open, free to use and available on https://github.com/aayush-srivastava/MVC-Template
- Template implements basic Create, Read, Update, Delete Operations
- Web application implemented using HTML5, CSS3, Bootstrap and JavaScript
• ***Friends(Team):*** *Developed a python program to illustrate friend connections on social media platforms such as Facebook, LinkedIn*
- The program suggests new friend suggestions to a user based on his current friend list
- Created a connection network for the social network using the Python NetworkX library
- New friend suggestions were calculated based on a user's current number and type of friend connection using the python matplotlib library
- Graphic User Interface was developed using PyQt5
• ***Chat Bot (Microsoft Azure):*** *Created a simple QnA chat bot using the Azure Bot Service*
- The chat bot can be accessed globally using an HTTP endpoint
- The bot can be altered to answer company and domain specific questions depending on the user's needs
• ***Shop Manager:*** *Built a full stack MVC shop manager application using the Java Spring framework*
- A modern day shop requires multiple tasks to be carried out such as delivery and arrangement of goods
- The application helps the shop manager to track these tasks with ease with their required and estimated completion times
- It also helps the manager to assign or reallocate tasks to its employees
• ***Chat Bot(Google Dialogflow):*** *Worked in a team of three people towards building an integrated chat bot for our college website*
-The chat bot works on the Google DialogFlow on the Google Cloud Platform and will answer college specific questions
-The chatbot uses Natural Language Processing using DialogFLow to learn of commonly asked questions and favorable responses.

CERTIFICATIONS

ARCHITECTING WITH GOOGLE COMPUTE ENGINE | GOOGLE CLOUD **JANUARY 2020**

A five-course specialization that includes the following course certifications:
• *Google Cloud Platform Fundamentals: Core Infrastructure*
• *Essential Cloud Infrastructure: Foundation*
• *Essential Cloud Infrastructure: Core Services*
• *Elastic Cloud Infrastructure: Scaling and Automation*
• *Reliable Cloud Infrastructure: Design and Process*

ACHIEVEMENTS

• *Class topper for the branch, placing 3rd in a class of 80 students over the period of semesters 1 to 2*
• *Headed the college design team during the annual college Techfest 'Techela 4.0' -2019*
• *Co headed the college design team during the annual college cultural fest 'Reverb' -2018*