AAYUSH SRIVASTAVA

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EDUCATION

University of Florida | MS Computer Science   **2021 – 2022**

Analysis of Algorithms, Software Engineering, Database Management Systems, Introduction to Modern Cryptology, Machine Learning, Human Computer Interaction

Symbiosis International University, India | BTech Information Technology   **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

EXPERIENCE

Amazon | Software Development Engineering Intern   **Summer 2022 | Seattle, WA**

- *Worked as part of Amazon's Customer Checkout Experience Team*
- *Developed and migrated a customer facing service to AWS and integrated it with other existing services*
- *Carried out the migration and integrations of new services with the existing systems, with no downtime to the customer*

TECHNICAL SKILLS

Languages & Frameworks: *Python, Java, SQL, C/C++, C#, SQL, ASP.NET, Flutter, Android, R*
Big Data: *Amazon DynamoDB and S3, Google Cloud Firestore, MongoDB, Azure CosmosDB*
Tools: *Amazon Web Services, Google Cloud Platform, MATLAB, SQL Developer, Eclipse, Maven, Pycharm, Microsoft Office Suite, Visual Studio, Visual Studio Code, Slack, Jira, Confluence*
Web Design: *HTML5, CSS3, JavaScript, PHP, AJAX, JSON, Adobe Photoshop*

PROJECTS

• <u>**Automatic Grading and Evaluation Platform:**</u> *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*
• <u>**Sentiment Analysis:**</u> *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*
• <u>**Recommender System:**</u> *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*
• <u>**Friends:**</u> *Developed a python application 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*
• <u>**Shop Manager:**</u> *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*
• <u>**Chat Bot(Google Dialogflow):**</u> *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**

• *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*