

# ASEEM BARANWAL

Computer Science Graduate Student at UF

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## EDUCATION

### University of Florida

Aug 2022 - May 2024

Masters of Science in Computer Science (GPA - 3.77/4)

Gainesville, FL, USA

**Courses** : Mathematics for Intelligent Systems, Distributed Operating System Principles, Information Visualization

### Madan Mohan Malaviya University of Technology

Jul 2017 - Jul 2021

Bachelor of Technology in Computer Science & Engineering (CGPA - 8.15/10)

Gorakhpur, UP, India

**Courses** : Operating Systems, Algorithms, Software Engineering, Data Structures, Databases, Machine Learning, Cloud Computing

## TECHNICAL SKILLS

### Languages & Frameworks

C++, Python, Java, JavaScript, SQL, Spring, Hibernate

### Libraries

Pandas, Scikit, Seaborn, NLTK

### CS Fundamentals

Operating Systems, Data Structures, Algorithms, Database, OOP Concepts

### Developer Tools

Microsoft Azure, VSCode, Spyder, SQLDeveloper, IntelliJ, SparkAR, Blender, NetBeans

### Others

Tableau, Latex, CICD, Jenkins, JIRA, ALM, TortoiseSVN, Agile

## EXPERIENCE

### Tata Consultancy Services | Java, Spring, Hibernate, PL/SQL, ReactJS, CICD, Jenkins

Jul 2021 - Jul 2022

Software Developer (Full-time)

Bangalore, KA, India

- \* Developed critical sections like **Pricing & Workflow** which helped to **increase** customer acquisition by 38%.
- \* Implemented bugfixes using an **agile methodology** which reduced the system downtime by over 52%.
- \* Coordinated and managed Dev-ops activities with less than 2% failures using TortoiseSVN, Jenkins, and CICD.
- \* Delivered tasks well before the deadline and **coordinated** with testing and Dev-ops team resulting in a fluid product development.

### School of Innovation by Facebook | Blender, Javascript, SparkAR, ReactJS

Mar 2020 - Jun 2020

Augmented Reality Development Intern (Part-time, Contractual)

Remote

- \* Worked as a team of two on developing a **web application** for an AR makeup trial for Nykaa as part of **Facebook Innovation Program 2020**.
- \* Learned AR product development and was trained on the Facebook Spark AR platform for **generating visualizations** based on face tracking movements.
- \* Used Spark AR platform with **10 different Blender objects** to make effects and jewelry.
- \* The web application had the potential to **increase user time spent** on the website by 46% suggestively.

## ACADEMIC PROJECTS

### Log Data Visualization | Python, NLP, Seaborn, HTML5, CSS3, JS, Tableau

Dec 2022

- \* Built a responsive website feeding on log data that displays useful results by forming useful connections in unlinked data.
- \* Used NLP libraries for data retrieval and made word clouds to understand data which highlighted 3 important features.
- \* Used Tableau to visualize the plots which improved the time spent in understanding data by a **factor of 100**.

### Distributed Message Exchanger | Erlang, Akka, Gossip, Push-Sum, Topology

Nov 2022

- \* Implemented Akka model in Erlang to make distributed system of nodes that can communicate with each other using message-passing algorithms which ran successfully for 100,000 nodes.
- \* The nodes were present in an isolated environment where a global master Node controls all other nodes.
- \* Used push-Sum and Gossip-Algorithms on 4 different network topologies.

### Twitter Sentiment Analysis | Python, NLTK, Search Engine, Web Crawlers, Pandas

Apr 2021

- \* Designed a model to predict the polarity of a given text at the document, sentence, or feature/aspect level and throw an alert if tweets were provocative statements.
- \* Created model predicted the polarity of a tweet with an accuracy of 79.67%.
- \* Played a significant role in identifying infuriating statements made during the Delhi riots in 2020.

### Store Dashboard Software | Java, JavaFX, Swing, MySQL, Eclipse

Dec 2020

- \* Designed an interactive Store Dashboard application with a shopper list Bill calculator for a General Store.
- \* Calculated the aggregate price, has a calculator that includes taxes, and had delivery charges support based on location.
- \* Implemented object-oriented programming practices such as inheritance to create different account types and databases.

## ACHIEVEMENTS & EXTRACURRICULAR

- \* Former **Secretary** and **Treasurer** at Entrepreneurship Cell, MMMUT, and conducted hackathons and coding classes.
- \* **6\*** in Algorithms on Hackerrank.
- \* Secured **Academic Achievement Award as a scholarship** by the University of Florida.
- \* Taught and solved doubts about Data Structures as a **Teaching Assistant** at Coding Ninjas.
- \* Codeforces **Specialist** (Best Rating 1425).
- \* Ranked in **top 2200** in Codeforces Round 645 Div. 2