

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 : Maths in Machine Learning, Distributed Operating Systems, Information Visualization, Algorithms, Data Mining

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, Software Engineering, Data Structures, Web Design, Databases, Machine Learning, Cloud Computing

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, SQL, Spring, Hibernate, Erlang

Python Libraries: Pandas, Scikit, Seaborn, NLTK, Scipy, Numpy, OpenCV

Platform Frameworks: Spring MVC, ReactJS, REST API, Selenium, Linux, Git

Developer Tools: Linux, Azure, VS, Spyder, SQLDeveloper, SparkAR, Blender, NetBeans

CS Fundamentals: Operating Systems, Data Structures, Algorithms, Database, OOP Concepts

EXPERIENCE

University of Florida | C++, Software Development, Design, Data Structures

Jan 2023 - Present

Teaching Assistant (Part-time, Contractual)

Gainesville, FL

- Collaborated with Professor Cruz to assist in teaching and taught fundamental and advanced concepts in C++.
- Provided one-on-one support to 125+ students as a teaching assistant for Programming Fundamentals - II.

Tata Consultancy Services | Java, Spring, Hibernate, PL/SQL, ReactJS, JUnit

Jul 2021 - Jul 2022

Software Engineer (Full-time)

Bangalore, KA, India

- Developed critical sections like **Pricing & Workflow** which helped to **increase** customer acquisition by 40%.
- Optimized the code queries in Hibernate resulting in fast processes with increased speed by a **factor of 10**.
- Implemented bugfixes using an **agile methodology** which reduced the system downtime by over 30%.
- Created Database materialized views to show relevant content to external systems without **exposing sensitive data**.
- Performed Testing and **increased the coverage criteria** of the code to minimize bugs.

School of Innovation by Facebook | Blender, Javascript, SparkAR, Android

Mar 2020 - Jun 2020

Augmented Reality Development Intern (Part-time, Contractual)

Remote

- Created an application to show **visual make-up trial using 14 objects** with positioning using SparkAR.
- The application **increased the user time spent** on the app by more than 50% suggestively.

ACADEMIC PROJECTS

Minesweeper Game | C++, SFML, OOP, Graphics

Apr 2023

- Built the classic Minesweeper game in C++ with all the functions and leaderboard using **4 threads**.
- Created optimized code to find all mines and made the application usage experience 30% smoother.

Log Data Visualization | Python, NLP, Seaborn, HTML5, CSS3, JS, Tableau [visualizer.w3spaces.com]

Dec 2022

- Built a Tableau app to visualize different data features reducing time spent in understanding data by a **factor of 100**.
- Used NLP for data retrieval and made word clouds to understand data which highlighted 3 important features.

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

Nov 2022

- Implemented Actor model to make distributed communication system capable of running for 100,000 nodes.
- Used push-Sum and Gossip-Algorithms on 4 different network topologies.

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

Apr 2021

- Designed model to predict the polarity of a given text to predict provocative statements which flagged **100+** accounts.
- Created model using Boosting with final accuracy of 89.6% helping counter misinformation during Delhi Riots 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.

ACHIEVEMENTS & EXTRACURRICULAR

- Teaching Assitant at University of Florida** for Programming Fundamentals course and solved doubts of 80+ students
- Taught and solved doubts about Data Structures as a **Teaching Assistant** at Coding Ninjas.
- Former **Secretary** and **Treasurer** at Entrepreneurship Cell, MMMUT, and conducted hackathons and coding classes.
- 6*** in Algorithms on Hackerrank.
- Codforeces **Specialist** (Best Rating 1425).