Mohit Garg

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EDUCATION

- **University of Florida** — Gainesville, FL
  Master of Science in Computer Science; GPA: 3.28/4 — *Aug. 2019 – Dec. 2020*

- **Amity University** — Noida, India
  Bachelor of Technology in Computer Science; GPA: 3/4 — *Aug. 2015 – May. 2019*

PROGRAMMING SKILLS

- **Languages**: Java, Python, JavaScript, Elixir, C, C++

- **Technologies**: AWS , Dialogflow, Google Cloud Platform, Distributed Systems, Android Development, Algorithm Design and Analysis, Data Structures, Git, Web Development, DevOps

- **Soft skills**: Team Building, Oral and written communication, Committed to Lifelong learning, Reliable and consistent

PROJECTS

- **Covid-19**: link
  - **Application**: Built a voice controlled Android Application to track the updated confirmed, deaths, and recovered cases of Covid-19.
  - **Dialogflow**: Created Intents and Entities to process user commands and Generating a response using AI.
  - **Data visualization**: Statistical data display Integrated with map for detailed report of each country and area with coordination support.

- **Face Recognition Attendance System**: link
  - **Precision**: Recognizes and marks the attendance in CSV format with over **96% accuracy rate**.
  - **Data Collection**: Developed continuous learning model which persistently collects Data for precise predictions.
  - **Frontend**: Designed easy-to-understand and Optimized workflow diagram to minimize instructor's efforts.

- **Twitter Engine**: link
  - **Web Application**: Interactive web user interface using Phoenix web development Framework.
  - **Feeds**: Posting Live tweets, Message passing, tagging users, Hashtags and retweets directly to online user's feed.
  - **Connections**: Services Like Follow-Unfollow other users and hashtags to create social network.

- **Tapestry Routing Algorithm**: link
  - **Routing table**: Developed optimized network routing path table taking minimum number of hops from one peer to other peer.
  - **Scalable Network**: Built scalable network by adding new nodes to its designated position and updating nearby routing tables accordingly.

- **Gossip simulator**: link
  - **Topologies**: Implemented and Analysed fully distributed fault tolerant 3D network models like **3D torus, honeycomb, and random honeycomb**. Report
  - **Convergence time**: Reduced Convergence time by **50%** using asynchronous multi-core parallel processing of an actor model written in Elixir.

- **B-Plus Tree**: link
  - **Advanced Data Structure**: Implemented an **in-memory** B-Plus Tree using Arrays and Linked List in C++.

- **Night Rider Web App**: link
  - **Data Visualization**: Showed statistics of Crime, transport and accommodation availability in Las Vegas over past 5 years graphically.
  - **Data normalization**: Filtered, normalized, and managed the data of 7.5 million tuples efficiently in Database management systems.

Experience

- **Aptron Solution Pvt Ltd** — Noida, India
  Software Developer trainee — *May 2018 - July 2018*
  - Learned software engineering process improvements and best practices.
  - **Website**: Developed E-commerce website using HTML, CSS, JavaScript and PHP programming language.
  - **Docker**: Deployed and managed website image on Docker container using DevOps methodology.
  - Collaborated with other developers to identify and alleviate number of bugs and errors in software.
  - **JUnit**: Tested Docker image using maven and monitor the new GitHub updates using Jenkins server.
  - Carefully documented technical workflows and knowledge in private wiki as newly hired employee.

Accomplishments

- **Scholarship**: Admitted with Dean's Merit Scholarship for demonstration of Excellence in Computer Science
- **MTC Camp**: Finished as one of the top cadets in a week long Military Training Camp organized by Amity University