# Maharshi Patel

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## EDUCATION

**Georgia Institute of Technology**                                                                                      May 2025
*Bachelor of Science & Masters of Science in Computer Science*                                           *Atlanta, GA*
- Concentration: Information/Internetworks and Intelligence
- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Computer Organization & Programming, Artificial Intelligence, Machine Learning, Computer Vision, Computer Networking

## EXPERIENCE

**University of Mississippi Medical Center**                                                            Aug 2023 – Feb 2024
*Data Analyst*                                                                                                                     *Remote*
- Leveraged various natural language processing techniques, including TensorFlow and NumPy python libraries
- Utilized Django tools within the tech stack to enhance general data analysis and database processing by 15%
- Developed advanced ML algorithms to differentiate and automate diagnoses based on imaging and team notes
- Migrated from FileMaker Pro to SQL, enhancing data integrity and indexing with increased efficiency of 24%

**CodeSoft**                                                                                                          May 2023 – Aug 2023
*Software Developer Intern*                                                                                                *Atlanta, GA*
- Integrated AWS Lambda for event-driven computing, serverless microservices, and reducing server-side processing time by 28%
- Deployed lifecycle policies and managed scalable data storage using AWS S3, cutting storage costs and data redundancies by 12%
- Implemented AWS API Gateway for efficient communication between client-side applications and backend services, improving API response times by 35%
- Utilized AWS Cognito for secure user authentication with email and phone number verification, with sign-up and access control features

**STEAM Infinite**                                                                                                                 Present
*Co-Founder*                                                                                                                       *Atlanta, GA*
- Created content, managed, oversaw over 25+ projects, including 2 FLL final competition sessions - '24 Winners
- Utilized GitHub and FTP server to launch, with collaboration of 5 teammates on the STEAM Infinite website
- Inspired kids in programming and problem-solving using technologies like Arduino, Scratch, Robotics, and Python

## PROJECTS

**Georgia Tech Research Institute (Automotive LiDAR)** | *Python, ROS2.0, Git*                           Present
- Implemented and tested various path-planning algorithms, including A* and Dijkstra's algorithm, with reduction by 20%
- Leveraged SLAM algorithms with localizing accuracy within 4 cm margin and mapping accuracy up to 59%
- Designed a LiDAR system in ROS 2.0 and Python and implemented real-time data processing with obstacle detection
- Collaborated with sub-teams to ensure seamless integration for a 15% improvement in vehicle responsiveness

**SQL Database Implementation** | *SQL, Git*                                                                         Fall 2022
- Created a database from requirements using SQL and connected different tables of the database with proper implementation
- Manipulated and maintained the given database with conflicting entries and integrity, while revised about 80 errors and incompatibilities
- Updated the database accordingly to reflect the changes and reduced vulnerability by 28% in the database
- Finalized 41+ SQL Scripts to ensure integrity in the database, avoiding violation of any admin-level clearance

## TECHNICAL SKILLS

**Programming Languages**: Java, Python, JavaScript, HTML, CSS, SQL, C/C++
**Technologies**: React.js, Node.js, LaTeX, Android, Swift, NumPy, AWS, Google Firebase, FileMaker Pro Docker, Git, Linux, TensorFlow, spaCy
**Certifications**: Programming with JavaScript (Meta), Python, Advanced React (Meta), Front-end, and Back-end Development, Power BI, AWS Fundamentals and Cloud Solutions Architect (AWS)