

# Maharshi Patel

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## EDUCATION

### Georgia Institute of Technology

Dec 2024

*Bachelor 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 2022 – Aug 2022

*Software Developer Intern*

*Atlanta, GA*

- Worked with Google Firebase Realtime Database for user's event data posting and reduced retrieval times by 39%
- Harnessed Google Firebase Authentication for new user email and phone number verification with efficiency
- Utilized multiple React components and ensured seamless integration with 26+ services and Git version control

### STEAM Infinite

Present

*Co-Founder*

*Atlanta, GA*

- Created content, managed, and oversaw various projects, including FLL competition, used for the sessions
- Utilized GitHub and FTP server to launch and easily collaborate with others 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*

Aug 2021 – May 2023

- 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 2021

- Created a database using SQL and connected different tables of the database with proper implementation
- Manipulated the given database with conflicting entries and revised about 80 errors and maintained integrity
- Updated the database accordingly to reflect the changes and reduced vulnerability by 18% in the database
- Finalized SQL Scripts to ensure integrity in the database by not violating 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)