Maharshi Patel

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EDUCATION

Georgia Institute of Technology   Dec 2023
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*
- Collaborated on Google Firebase Realtime Database for user's event data posting and reduced retrieval times by 39%
- Harnessed the Google Firebase Authentication for new user email and phone number verification with increased 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 increased localization within 4 cm margin and mapping accuracies 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 of hardware and software 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)