Maharshi Patel

Atlanta, GA | patelm0712@gmail.com | linkedin.com/in/maharship07 | maharship07.github.io | U.S. Citizen

EDUCATION

Georgia Institute of Technology   Expected Graduation - Dec 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

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

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%

M-Tech Tutoring   Aug 2024 - Present
Tutoring Experience (STEM and Math Focus)   *Remote*
- Engaging students in Mathematical concepts and blending Computer Science principles using programming projects into 6+ lessons using Python
- Designed an Area and Perimeter Calculator to demonstrate abstract concepts and applications of geometry
- Introduced a Tip Calculator project to teach tip, discount, taxes, and real-life financial literacy through percentage
- Developed a Basic Calculator project, enabling students to practice arithmetic operations while exploring programming fundamentals

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)