ALI TAHA

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Education

Cornell University, College of Engineering, Ithaca, NY   Dec 2024
Masters of Engineering in ECE   GPA: 3.9

Cornell University, College of Engineering, Ithaca, NY   May 2023
Bachelors of Science in CS and ECE

Experience

Amazon Robotics   Jan 2023 - Jun 2023
Software Development Engineer Co-Op   North Reading, MA

- Developed a C++ library for real-time video processing and sensor data serialization in ROSBAG format, improving cross-team collaboration and testing integration.
- Designed and implemented a testing protocol for automotive radar systems, using Python and RViz for data visualization and clustering analysis.
- Designed and implemented clustering algorithms for obstacle avoidance using mmWave Radar.

Meta   May 2022 - Aug 2022
Software Engineer Intern   Menlo Park, CA

- Developed a full-stack tool for model metric monitoring, using SQL, PHP/Hack, and React, improving team performance tracking by 40%.
- Created a domain-specific language for model specification, reducing complexity and cutting specification time by 50%.

Projects

Elm Enterprise Resource Planning (ERP) System   2023
Full-Stack Development

- Architected and implemented a comprehensive ERP system using React with Redux for state management.
- Developed secure REST APIs using Java Spring Boot, implementing JWT authentication for robust security measures.
- Containerized the application using Docker and orchestrated deployment with Docker Compose for consistent development and production environments.
- Designed and implemented a PostgreSQL database schema, optimizing for complex business relationships and query performance.
- Set up AWS infrastructure including EC2, RDS, and S3, with automated CI/CD pipelines using GitHub Actions.
- Implemented real-time features using WebSocket for live updates and notifications to enhance user experience.

Technical Skills

Programming Languages: Java, Javascript, Python, C++, Go
Frameworks: React, Spring Boot, Django, Flask
Other Tools: PostgreSQL, MySQL, AWS, Azure, Git, GitHub Actions, RabbitMQ, Kafka, CUDA, Linux, Wireshark