

EDWIN SAJEE JOHN

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Software engineer with expertise in integrating large-scale systems, optimizing algorithms, and leveraging cloud technologies to build scalable solutions.

EDUCATION

Master's in International Software Systems Science

October 2024 - Present

Otto Friedrich University of Bamberg, Germany

- Specializing in the development of large-scale, networked software systems.
- Focused on software architecture, distributed computing, and system integration.

B.Tech in Computer Science and Engineering

August 2018 - August 2022

APJ Abdul Kalam Technological University, India

- Completed a comprehensive program covering software development, algorithms, data structures, and system design.
- Gained hands-on experience in programming, database management, and software engineering practices.

PROFESSIONAL EXPERIENCE

Assistant System Engineer Trainee

June 2023 – August 2024

Tata Consultancy Service Ltd.

- Integrated two models into a master model for streamlined functionality and efficiency
 - ◆ Combined two versions of Advanced Driver Assistance Systems (ADAS) models by merging shared logic and validating accuracy with consistent input checks to ensure error-free functionality.
 - ◆ Used Reactis to compare logic outputs for discrepancies by providing the same input to both models and leveraged MATLAB Simulink to trace and identify differences, which were corrected by adjusting the logic.
 - ◆ Continuously updated the models through back-to-back testing based on identified differences, achieving 0 discrepancies and successfully combining both ADAS models into a unified system.
- Java Full Stack Training for Web Application Development
 - ◆ Completed Java Full Stack training, gaining expertise in both front-end and back-end technologies for web application development.
 - ◆ Acquired hands-on experience with frameworks like Spring, Hibernate, Angular, and React to build dynamic, scalable web solutions.
- Analyzing and Documenting C/C++ Code for Efficiency and Memory Optimization
 - ◆ Analyzed and refactored C/C++ code for the Around View Monitor system to optimize performance and reduce memory usage.

- ◆ Documented the analysis process, code changes, and performance benchmarks to ensure clarity and support future development.

Software Engineering Intern

January 2023 – May 2023

DocketGo

→ Improving Search Algorithms in Python for Enhanced Performance

- ◆ Explored and tested various algorithms, including Facebook AI Similarity Search (FAISS), and compared their time complexity to optimize data fetching efficiency.
- ◆ Improved data retrieval speed, reducing latency in real-world applications.

PROJECTS

Online Shopping Store

- Built a full-stack scalable Java-based e-commerce platform, enabling seamless online shopping.
- Hosted on Google Cloud, integrating Firebase Analytics for user insights and email notifications for order updates.
- Gained expertise in cloud deployment, backend development, and service integration.

Netflix Clone Website

- Developed a full-stack MERN web application replicating Netflix features using Firebase for real-time content delivery and MongoDB for scalable storage.
- Conducted extensive testing to optimize performance and user experience.
- Gained hands-on experience in cloud services, database management, and full-stack development.

Stock Market Prediction Using Deep Reinforcement Learning

- Implemented a deep reinforcement learning model, improving market trend prediction accuracy by 20% using historical data.
- Integrated sentiment analysis with NLP and machine learning to enhance model reliability by 25%.
- Tested and compared various AI models to optimize performance and prediction reliability.

SKILLS & OTHER

- Programming & Development: **C, Java, Python, Full Stack, React, Spring, Machine Learning**
- Cloud Technologies: **Firebase, Google Cloud Platform, Google App Engine, Cloud Functions**
- Tools: **MATLAB, Simulink, Reactis**
- Version Control & Databases: **Git, SQL, NoSQL, Database Management**