

SACHIN

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WORK EXPERIENCE

Broadridge

Hyderabad, India

Full Stack Software Development Engineer

July 2023 – Present

- **App Development and Integration:** Designed, developed, and integrated end-to-end business applications using .NET and Angular, enhancing performance and scalability. Built RESTful APIs, increasing response speed by 30% through caching and Load Balancing mechanisms for efficient data exchange and accurate financial metrics retrieval.
- **Code & Database Optimization:** Developed Controller, Service, and Repository classes, improving data access efficiency and achieving a 20% reduction in response times by optimizing data structures and algorithms while adhering to OOP principles for cleaner code. Utilized Liquibase for incremental database refactoring, streamlining deployments and reducing deployment time by 25%.
- **Code Quality and Security Compliance:** Ensured 100% compliance with coding standards using SonarQube for quality analysis and Checkmarks for security assessments. Wrote unit tests with NUnit, Moq, Jasmine, and Karma, reducing production bugs by 95%, improving code coverage by 40%, and addressing over 50+ critical vulnerabilities before deployment.
- **Tech stack migration:** Successfully upgraded the codebase from .NET 5.0 to .NET 8.0, seamlessly updating all dependencies resulting in 25% codebase reduction, more maintainable application and improved application startup time.
- **Bug Resolution and CI/CD Process Optimization:** Collaborated with QA teams to build test cases, clarify impacted areas, and enable in-sprint testing, reducing regression testing time by 20%. Leveraged Jenkins and JFrog for CI/CD, cutting deployment times by 30%.
- **R&D, Design Documentation and Code Reviews:** Created design documentation and conducted code reviews to improve efficiency, focusing on time and space complexity. Led R&D for rendering complex charts and tables using OpenXML, overcoming multi-type chart challenges and reducing report generation time by 35%, enhancing the end-user experience with faster insights.

Broadridge

Hyderabad, India

Software Development Engineer Intern

January 2023 – June 2023

- **Technology Learning & Hands-On Experience:** Experimented with tools and frameworks, learning the differences between C# and Java in terms of syntax and ecosystem & comparing .NET and Spring Boot in terms of architecture and development paradigms.
- **Fintech Industry Knowledge:** Learned key fintech concepts like asset classes, benchmarks, and mutual funds Prepared for reverse knowledge transfer sessions with 125+ interns, enhancing team understanding of fintech.
- **SDLC & System Design:** Applied SDLC principles and coding standards, gained expertise in High- and Low-Level design and MVC architecture, improving scalability and maintainability of legacy projects by 20%.

Indian Institute of Information Technology, Allahabad

Remote

Research Intern

January 2022 – August 2022

- **Driver Drowsiness Detection Model:** Implemented a facial expression-based ML model using CNN, achieving 97% accuracy with real-time training data, utilized libraries such as NumPy, Pandas & Matplotlib for efficient data manipulation and visualization.
- **Feature Extraction & Sequence Processing:** Used significant features for each video frame extracted by CNN from the final pooling layer to stitch together a sequence of feature vectors for consecutive frames, improving model performance by 15%.

EDUCATION

Birla Institute of Technology, Mesra

Ranchi, India

Degree: BTech in Computer Science and Engineering; CGPA: 8.94/10

April 2019 – May 2023

TECHNICAL SKILLS

Programming Languages:	Java, C#, Python, TypeScript
Frameworks & Libraries:	.NET, Entity Framework, Dapper, Angular, flask, OpenXML, Bootstrap, Spring Boot
Design Patterns:	Clean Architecture, MVC, Dependency Injection
API:	RESTful APIs, Postman
Databases:	MySQL, Oracle DB
Version Control:	Git, GitHub, Gitlab, Bitbucket
Testing:	Unit testing with NUnit, Moq & Jasmine Karma
IDE's:	Visual Studio, Visual Studio Code, Eclipse
Problem Solving:	Strong analytical skills; solved 1000+ problems on Coding Platforms; proficient in data structures & algorithms.

ACHIEVEMENTS

- Received the 'Key Contributor Award' at Broadridge and was inducted into the Wall of Fame for outstanding contributions.
- Invited as an individual guest speaker for the first edition of the Boundless Budhwar Session, sharing insights on Generative AI.
- Achieved notable rankings in Coding Contest being ACM ICPC Regionalist & IEEEExtreme 14.0 (All India rank 353 out of 3,700+ teams).