NIRASHA MORAIS

Associate Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with **1.5 years** of experience in enterprise **.NET** development, skilled in **ASP.NET MVC, C#,** and **SQL Server**, with a strong record of delivering scalable, production-ready applications. With added exposure to **AI/ML** and **full-stack** technologies, bringing versatility to modern software projects.

WORK EXPERIENCE

Associate Software Engineer | Soft Gallery (Pvt) Ltd, Ja-Ela, Sri Lanka   **Jan 2025 – Dec 2025**

- Developed and maintained web application components using ASP.NET MVC**, Razor Views, C#**, and **JavaScript/jQuery**.
- Optimized data retrieval and storage with **Entity Framework Core** and SQL Server, improving system responsiveness.
- Improved database performance by fine-tuning **LINQ** queries and SQL Server operations, reducing query execution time.
- Resolved **40+** bugs in the GalleryHR system, improving system stability and reducing downtime.
- Collaborated with cross-functional teams to deliver **secure authentication flows**, smooth deployments, and improved user experience across the application.

Software Engineer Intern | Soft Gallery (Pvt) Ltd, Ja-Ela, Sri Lanka   **Jul 2024 – Dec 2024**

- Strengthened .NET development expertise by applying C#, OOP principles, SOLID design patterns, and advanced LINQ techniques.
- Implemented enterprise **design patterns** including Repository Pattern, Unit of Work, and lazy loading strategies.
- Developed ASP.NET MVC features including controller logic, partial views, DTOs, and pagination functionality.
- Integrated secure APIs with proper authentication and authorization mechanisms.
- Built **dynamic frontend components** using JavaScript, jQuery, **AJAX**, and **DataTables** for enhanced data presentation.

EDUCATION

Bachelor of Science in Computer Engineering | University of Ruhuna	**CGPA: 3.32**	**March 2021 – 2026**
G.C.E. Advanced Level Examination | De Mazenod College, Kandana	**Grades: 1A, 2Bs**	**2019**
G.C.E. Ordinary Level Examination | De Mazenod College, Kandana	**Grades: 9As**	**2015**
Pearson Edexcel International GCSE | De Mazenod College, Kandana	**Grades: 5As, 2Bs**	**2016**

PROJECTS

Look Track Vision (Group Project)   **GitHub**
- Developed a real-time multimodal HCI system with **95% CNN**-based gaze tracking accuracy, integrating blink gestures, voice commands, and a React-based showcase website.

Book Fair Stall Reservation System (Group Project)   **GitHub**
- Built a user-facing book fair reservation platform with **Next.js, TypeScript, Tailwind CSS,** and **React**, improving onboarding and stall-booking efficiency by **40%** while enhancing cross-device performance and reducing user support issues by **30%**.

Kafka Order Processing System (Individual Project)   **GitHub**
- Built a **Kafka**-based order processing system using producer–consumer architecture with **Avro serialization**, retry handling, and a Dead Letter Queue for failed messages.

RuhunaRide (Group Project)   **GitHub**
- Built the mobile app frontend using **Flutter/Dart,** implementing booking flows, authentication, and **Firebase** integration for a smooth user experience.

BikePulse (Group Project)   **GitHub**
- Developed the customer-facing web and mobile frontends using Flutter, React, and JavaScript, and added a **Gemini**-based chatbot to enhance user interaction.

Secure Chat Application (Group Project)   **GitHub**
- Built a **Java** secure chat application with encrypted messaging (AES), Diffie-Hellman key exchange, HMAC integrity, and authenticated users.

Potato Leaf Disease Prediction (Individual Project)   **GitHub**
- Built a CNN-based potato disease classification system with **TensorFlow,** FastAPI, and React, deployed on **Google Cloud Platform.**

TECHNICAL SKILLS

Frontend	:	React, Next.js, TypeScript, JavaScript, Flutter, HTML5, CSS3, Tailwind CSS, Razor Views
Backend	:	C#, ASP.NET MVC, Entity Framework Core, FastAPI, Node.js, Express.js, REST APIs
Databases	:	SQL Server, MySQL, MongoDB, Pinecone, FAISS
AI/ML & LLM Tools	:	LangChain, RAG Pipelines, CNNs, TensorFlow, NumPy, Prompt Engineering
DevOps & Tools	:	Git, GitHub, Docker, Google Cloud Platform, Postman, Jira, Figma, SSMS, Visual Studio, VS Code
Other	:	OOP, Data Structures & Algorithms, Agile Project Management

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EXTRACURRICULAR ACTIVITIES

Member, Catholic Students' Society-University of Ruhuna	2021 - 2025
Member, Faculty of Engineering Basketball Team – University of Ruhuna	2022 - 2025
Member, Prefects' Board – De Mazenod College, Kandana	2015 - 2018
Member, Basketball Team – De Mazenod College, Kandana	2012 - 2018

REFERENCES

Mr. Thanzeel Jalaldeen
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