MANOJA SOMARATHNA

LinkedIn — GitHub — Portfolio

Software Engineer Intern — Interested in AI Emerging Technologies

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SUMMARY

Motivated and detail-oriented Software Engineer Intern with hands-on experience in building responsive web applications and full-stack solutions. Skilled in HTML, CSS, JavaScript, React.js, Java, Spring Boot, Node.js, Express.js, MySQL, and MongoDB. Strong understanding of software engineering principles, RESTful API development, and cloud platforms. Interested in AI and emerging technologies, with a foundation in Python and machine learning concepts. Passionate about problem-solving, learning new technologies, and contributing to real-world software projects.

EDUCATION

BSc (Hons) in Computing (Software Engineering)   March 2023 - March 2027
National Institute of Business Management (NIBM), Colombo 07

Higher National Diploma in Software Engineering   March 2024 - April 2025
National Institute of Business Management

Diploma in Software Engineering   March 2023 - March 2024
National Institute of Business Management

Relevant Coursework: Object-Oriented Programming, Artificial Intelligence Fundamentals, Data Structures and Algorithms, Database Management Systems, Software Engineering, Web Development, Computer Networks, Operating Systems, Information Systems Analysis and Design, Software Project Management, Cloud Computing

TECHNICAL SKILLS

Frontend:	HTML, CSS, Java, JavaScript, Python, Angular, React.js, Bootstrap, Tailwind CSS
AI / Machine Learning:	Machine Learning Basics, Data Preprocessing, Model Training Concepts
Frameworks Libraries:	scikit-learn (basic), TensorFlow / PyTorch (learning)
Backend:	Node.js, Java (Spring Boot)
Databases:	MySQL, MongoDB, Firebase
API Development:	REST API
Cloud DevOps:	Git, GitHub
Tools:	Jupyter Notebook / Google Colab, VS Code, Postman

SKILLS AND INTERESTS

Interests	Machine Learning, Cloud Technologies, Automation Systems, Coding, Data Science,AI
Soft Skills	Problem-Solving, Time Management, Communication Skills, Adaptability, Continuous Learning

PROJECTS

PlanMyTrip – AI Travel Planning App

· Developed an AI-assisted travel planning application using Gemini API for personalized travel recommendations and budget optimization
· Implemented real-time data integration using Google Places API for location intelligence
· Designed AI-driven logic to improve user experience and automated planning workflows

- Worked with Firebase backend and cloud deployment concepts
- Improved application performance and API response handling

Clinic Management System

- Built Android app to manage clinic operations, appointments, and patient records using Java/Kotlin and Firebase
- Implemented patient registration, appointment management, and reporting features
- Reduced scheduling errors by through automated reminders

ERP System (Backend, Data Management Project)

- Designed database-driven backend systems with optimized SQL queries
- Built scalable APIs for data handling and reporting
- Implemented invoice generation, reporting, and responsive UI
- Improved data retrieval efficiency by through optimized SQL queries

WorkNest – Service Booking Android App

- Developed service booking app connecting users with local providers using Java, Firebase, and Android Studio
- Implemented user authentication, live location integration, and booking management
- Increased booking efficiency by with streamlined workflows
- Integrated WhatsApp support for seamless customer communication

CERTIFICATES

Oracle Cloud Infrastructure 2025 - AI Foundations Associate (Oracle University)	October 2025
Basics and Structure of Java Programming (Alison)	October 2025
Database Foundations - Final Exam (Oracle Academy)	August 2024
Java Programming - Java basics, OOP concepts, practical coding (Educba)	December 2025
AWS Developer Fundamentals - JWS Core Services, Cloud Computing Basics, Deployment Fundamentals (Great Learning)	Jan 2026
AWS Cloud Practitioner Essentials - Gained knowledge in cloud computing, core AWS services, security, and pricing models. (AWS Training Certification)	Jan 2026

EXTRA-CURRICULAR

- Member – NIBM IT Club
- Volunteer – NIBM Events and Workshops
- Participant – NIBM Hackathons / CodeFests

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

REFERENCE

Mr. R. G. V. Pathirana
Consultant — Lecturer
School of Computing Engineering
National Institute of Business Management

Meng.(AIT), BSc(Hons) Eng.(AIT), reading MBA (UOP), MIEE

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