

Nipun Madhushan

Software Engineering · Backend Engineering · Full-Stack Development
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PROFILE SUMMARY

- Final-year undergraduate in Information Technology with hands-on experience in full-stack development and software engineering.
- Proficient in designing and developing scalable web applications, RESTful APIs, and database-driven systems using modern technologies.
- Experienced with frontend frameworks, backend services, version control, and cloud-based application architectures.
- Strong foundation in software engineering principles, including system design, clean code practices, testing, and collaborative development.
- Demonstrated ability to work in Agile environments, contribute to end-to-end product development, and solve real-world engineering problems.
- Actively seeking opportunities in full-stack development and software engineering roles to deliver high-quality, production-ready solutions.

SKILLS

- Programming Languages: Go (Golang), Node.js, Express, Java, C#, C, JavaScript, TypeScript, Python, React.js, Next.js, HTML, CSS
- Database & Tools: MongoDB, PostgreSQL, MySQL, Oracle, MS SQL, Redis, Git, GitHub, Figma, Jira, Jaeger
- Cloud & DevOps: AWS, Docker, CI/CD
- Other Skills: REST API, GraphQL, OOP, Unit Testing, English, Sinhala – Professional proficiency or above

PROFESSIONAL EXPERIENCE

- **Software Engineer Intern – Qlub Pay** Feb 2025 – Aug 2025
 - Worked on backend development using Golang and Python, focusing on POS integrations, bug fixes in integration modules, and adding new features.
 - Managed and tracked tasks using Jira ticketing, ensuring timely delivery and clear communication of progress.
 - Collaborated effectively with overseas teams, coordinating backend development across different time zones.
 - Provided SRE support, including monitoring, troubleshooting, and maintaining system reliability as an on-call backend developer.
 - Contributed to end-to-end backend workflows, from requirement analysis to deployment, ensuring high-quality, production-ready code.
 - Gained hands-on experience in integration testing, debugging, and problem-solving in real-world financial systems.
 - Technologies: Golang, Python, Backend APIs, Redis, Jaeger, POS Integration, Jira, Version Control (Git), Cloud-based architectures, Monitoring & SRE tools

PROJECTS

- **RSS Aggregator & Concurrent Web Scraper (Golang)**
 - Developed a backend system to aggregate and scrape RSS feeds concurrently using Golang goroutines and worker pools.
 - Implemented scheduled scraping, feed fetching logic, and XML parsing for multiple external RSS sources.
 - Designed a PostgreSQL schema with proper constraints, including URL-based deduplication and relational feed mapping.
 - Handled real-world scraping challenges such as duplicate data, invalid timestamps, network timeouts, and feed failures.
 - Technologies: Golang, PostgreSQL, RSS/XML Parsing, Concurrency, SQL
- **Workout Engine – Golang Backend**

- Developed a robust backend system for a workout/fitness platform using Golang and the Chi router framework.
 - Implemented JWT-based authentication and PostgreSQL integration.
 - Managed full transaction workflows to ensure data consistency.
 - Designed fully functional RESTful APIs with CRUD operations, middleware, error handling, and secure workflows.
 - Gained deep understanding of backend architecture, API design, authentication, database transactions, and production-grade practices.
 - Technologies: Golang, Chi, PostgreSQL, JWT, REST API
- **Homly Holiday Home Booking System**
 - Developed a holiday home booking system for Inova IT Systems.
 - Created the primary admin dashboard to display statistics and manage the blacklist (viewing complaints, adding/removing users, maintaining history).
 - Handled home acceptance process and location administrator management (adding, editing, disabling, password resets).
 - Technologies: React.js, Node.js, Oracle DB
- **Personal Code Assistant**
 - Built a full-stack AI-powered code assistant featuring natural language code explanations, smart debugging with error analysis, and code generation from simple descriptions.
 - Designed a modern UI using Glass Morphism for a seamless user experience.
 - Technologies: Next.js 14, TypeScript, Google Gemini AI, Tailwind CSS

EDUCATION

- **B.Sc. (Hons.) in Information Technology (Reading)**
University of Moratuwa, Sri Lanka Current GPA: 3.77
 - Major: Information Technology
 - Dean's List: Achieved in 3 semesters
 - Computer Architecture, Computer Networks, Operating Systems, Artificial Intelligence, Logic Programming & Artificial Cognitive Systems, Enterprise Application Development, Machine Learning and Pattern Recognition, IT Quality Assurance

REFERENCES

- **Dr. (Ms) G.U. Ganegoda**
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- **Virudrana Bandaranayake**
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