Samadhee Samarasinghe

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💼 samadhee-portfolio.netlify.app/

Education

Robert Gordon University **Expected Graduation: Dec 2026**
MSc Big Data Analytics *Scotland, UK*
- Modules: Data Mining, Data Analysis, Advanced Databases, Cloud Computing, Text Analytics, Research Methods, Big Data Programming, Data Warehousing

NSBM (UGC) **Jan 2021 - Dec 2024**
*BSc (Honours) in Computer Science | **Second Upper Division - GPA: 3.59*** *Homagama, Sri Lanka*
- Core Modules: Algorithms and Data Structures, Software Architecture, OOP with Java, Statistics for Computing, Advanced DBMS, Advanced Mathematics for Computing, Mobile and Web-Based Application Development, Data Warehousing and Data Mining, Artificial Intelligence, CS Honours Award Project

Work Experience

Codezync **Jan 2024 – Aug 2024**
Associate Software Engineer *Colombo 3*
- Developed and maintained .NET Web APIs for the TM DONE Food Delivery App (Oman), optimizing backend systems (MongoDB, PostgreSQL) to support over 50,000 active users across admin and account portals.
- Diagnosed and resolved critical production issues, and refactored background tasks using Hangfire to improve API responsiveness and system stability.
- Integrated backend logic for delivery workflows, payment processing, and customer verification via SMS in both TM DONE and JAT Loyalty systems.

Codezync **July 2023 – Jan 2024**
Backend Engineer Intern *Colombo 3*
- Engineered backend features for the TM DONE Food Delivery App (Oman), building and testing API endpoints with .NET Web APIs and managing order, customer, and store modules.
- Developed and scheduled background processes using Hangfire for real-time order-handling and supported database operations with MongoDB and PostgreSQL.
- Assisted in identifying and fixing logic bugs in production-level services, contributing to improved system reliability.

Latest Projects

Cloud-Native Microservices-Based Analytics **Kubernetes | Docker | ClickHouse | Amazon QuickSight**
- Developed and deployed a containerized microservices solution on Oracle Kubernetes Engine with real-time event tracking via ClickHouse, PostgreSQL-managed data services, automated GitHub Actions CI/CD pipeline, and analytics visualization using Amazon QuickSight.

Hotel Review Sentiment Classification **Python | Scikit-learn | TensorFlow | DistilBERT**
- Built a multi-model sentiment classification system by extracting and preprocessing hotel reviews, generating sentiment ground truth via majority voting, applying multiple feature representations (TF-IDF, CountVectorizer, GloVe, FastText), and training both classical ML and deep learning models (MLP, CNN, DistilBERT) to improve multi-class sentiment prediction in review data.

To-Do List App | *Github* **React.js | Node.js | Express.js | MongoDB**
- Built a secure MERN stack task manager with user auth, password recovery, protected routes, and full CRUD operations with sorting and filtering for task organization.

Technical Skills

Languages: HTML5, CSS, Python, C, SQL, JavaScript, TypeScript, R, Java
Developer Tools: Postman, Git, AWS, Docker, Kubernetes, GitHub Actions (CI/CD)
Libraries/Frameworks:React.js, Next.js, AngularJS, Node.js, Express.js, Entity Framework, .NET Web API, NLP
Architectures:Microservices, REST APIs, MVC
Databases: PostgreSQL, MongoDB, MySQL, Microsoft SQL Server