Achintha Sandaruwan

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🏠 Malabe, Colombo, Sri Lanka

SUMMARY

Dedicated software developer with a strong foundation in full-stack development, machine learning, and blockchain technology. Skilled in developing innovative solutions using Python, Java, and JavaScript. Committed to continuous learning and applying cutting-edge technologies to solve complex problems.

EDUCATION

- **Horizon Campus Malabe** — Colombo, LK
  Bachelor of Science (Hons) in Information Technology — *March 2021 – Present*

EXPERIENCE

- **Freelance Software Developer** — Self-Employed, Remote
  Java and SQL Project Development — *June 2023 – August 2023*
  - **Client Projects**:
    Developed a small-scale Point of Sale System for a client in the retail sector, using Java and SQL databases to optimize their inventory and sales management systems. Used Java's efficient data structures and SQL query optimization techniques to solve bottlenecks in existing systems.

PROJECTS

- **Blockchain-Based Document Verification Framework (Ongoing Research)**:

  Developing a tamper-proof system for issuing and verifying official documents using blockchain technology. This final year research project aims to enhance security, transparency, and efficiency in document management.

- **Tourism Forecasting ML Model (Python, Jupyter Notebook)**:

  Developed a Python-based model using Prophet to predict Sri Lankan tourism arrivals. Forecasted 24 months ahead, evaluated with MAE, and identified areas for improvement. GitHub

- **Diabetes Prediction API (Python, FastAPI)**:

  Created and deployed an ML model using FastAPI to predict diabetes from health parameters. Features user-friendly Swagger UI for easy interaction. GitHub

- **Image Classification WebApp (Python, Streamlit)**:

  Built an interactive web app using Streamlit and MobileNetV2 for image classification. Implemented adjustable thresholds, filters, and Class Activation Map visualizations. GitHub

- **Network File Sharing (Java)**:

  Developed a client-server file-sharing mechanism with Java Swing GUI. Features include file upload, download, and delete operations. Used socket programming, multithreading, and SQLite for data storage. GitHub

- **Restaurant POS System (PHP, JavaScript)**:

  Created a web-based POS system using PHP, JavaScript, AJAX, jQuery, SQLite, and Bootstrap. Designed to enhance restaurant operations efficiency. GitHub

- **Student Information API (PHP)**:

  Built a RESTful API for managing student data, allowing CRUD operations on a MySQL database. Implemented filtering options for specific data retrieval. GitHub

- **Convenience Store POS (Java)**:

  Developed a Java-based POS system for small stores. Features include sales processing, inventory management, and employee records. Used Java Swing for GUI and MySQL for database. GitHub

- **Blender 3D Modeling (Blender, Cycles)**:

  Designed and animated a 3D model of the A350-1000 aircraft in Blender, featuring Sri Lankan Airlines branding. Utilized Cycles for rendering. This is a personal hobby project. Project Link

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, PHP, HTML5, CSS3, SCSS, SQL

- **Frameworks & Libraries:** Django, Jupyter Notebook, React.js, Bootstrap, TensorFlow, scikit-learn, pandas, NumPy

- **Databases:** MySQL, SQLite, PostgreSQL

- **DevOps & Tools:** Git, Docker, AWS, Linux, Heroku

- **Methodologies:** Agile, Test-Driven Development (TDD), CI/CD

- **Other Technologies:** RESTful APIs, GraphQL, Blockchain (Ethereum, Solidity), WebSockets

- **Design Patterns:** MVC, Singleton

- **Additional Skills:** UI/UX Design, Data Analytics (Power BI), Prompt Engineering, 3D Modeling (Blender)