ARUNIGA GNANASEGARAN

Full-Stack Developer

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PROFILE SUMMARY

A dynamic and goal-driven Computer Science undergraduate driven by curiosity and a proactive approach to challenges. Skilled in developing comprehensive software solutions and collaborating with diverse teams to deliver impactful, innovative results. Committed to continuous learning and excellence, with a strong desire to contribute effectively to real-world projects and enhance my expertise in software development.

EDUCATION

University of Westminster   *2023 - 2027*
BSc (Hons) Computer Science - Level 5

Belvoir College International   *2022 - 2023*
IAL (Advanced Level)
- Achieved 1A* & 3As, demonstrating academic excellence in the Physical Science stream.
- Awarded the Mr. H.C Peiris Memorial Scholarship for exceptional academic performance and discipline.

Belvoir College International   *2020 - 2022*
IGCSE (Ordinary Level)
- Secured distinctions across seven subjects, highlighting consistent academic achievement.

SKILLS

Programming Languages
- Python, Java, JavaScript, HTML, CSS, SQL

Frontend Development
- **Frameworks & Libraries:** React, Tailwind CSS, Material UI
- **Design Tools:** Figma

Backend Development
- **Frameworks & Tools:** Spring Boot, FastAPI, Node.js, Express.js

Version Control
- Git, GitHub

Databases
- MySQL, MongoDB

Web Technologies
- REST APIs, JSON, WebSockets

Machine Learning & Data Science
- **Libraries & Tools:** Pandas, Numpy, Matplotlib, Scikit-Learn, PyCaret, Google Colab

Soft Skills
- Collaboration & Teamwork, Problem-Solving, Critical Thinking, Communication, Time Management

PROJECTS

PledgeIt - Volunteer Management Platform
Tech Stack: React, FastAPI, MongoDB
- Co-developed a platform for event creation, attendance tracking, event discovery, and analytics with an interactive React frontend and FastAPI-MongoDB backend.

Machine Learning for Breast Cancer Survival Prediction
Tech Stack: Python, Pandas, Numpy, Matplotlib, Sci-Kit-Learn
- Developed a predictive model for mortality status and survival months of breast cancer patients using supervised learning, achieving high accuracy through thorough training and evaluation.

Real-Time Event Ticketing System
Tech Stack: React, Spring Boot, MySQL
- Developed a real-time ticket booking system using the Producer-Consumer pattern with WebSockets for instant updates. Ensured reliable backend processing with Spring Boot and data consistency with MySQL.

AI Image Generation Platform
Tech Stack: React, Node.js
- Developed an image generation web app using DALL-E for text-to-image conversion, with Node.js for backend processing, React for frontend rendering, and Cloudinary for image storage.

Air Ticket Booking System
Tech Stack: Java
- Built a command-line air ticket booking app with ticket management, seat selection, and user interaction, utilizing OOP principles for modularity and efficiency.

Life Below Water Website
Tech Stack: HTML, CSS, JavaScript
- Led the development of a responsive environmental awareness website, promoting ocean conservation and sustainability.

ACHIEVEMENTS

IX Designathon Participation
- Contributed to design a sustainable app prototype using Figma, focusing on user-centered design and seamless UX.

Hack X Ideathon Participation
- Developed a case study for a mental health care application with interactive features like assessments and chatbot support.

EXPERIENCE

Volunteer | IEEE of IIT
- Contributed to IEEE initiatives, showcasing teamwork and organizational skills.

Senior Prefect | Belvoir College International
- Led school events and mentored students, showcasing leadership and responsibility.

REFERENCES

Lakshan Cooray
Associate Data and AI Engineer,
Arimac

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