

SHANUKA SAMARAKONE

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Profile

Recent BSc (Hons) Computer Science (Artificial Intelligence) graduate from Brunel University London, awarded an Upper Second-Class Honors (2:1) classification. Passionate about software engineering and AI, with hands-on experience through academic projects including an AI-driven music therapy app and a 2D platformer game. Skilled in developing innovative solutions with a strong foundation in programming, system design and Agile methodologies. Recognised for leadership, teamwork and a can-do attitude, with a proven ability to solve problems and think critically to deliver high-quality outcomes.

Project Work

Adaptive Harmonies AI: Developed a personalised cross-platform mobile application demonstrating AI-driven adaptive music therapy.

- Developed an end-to-end working prototype in Flutter (Dart) for iOS/Android, backed by a Node.js/Express server (JavaScript) and MySQL database.
- Classified simulated patient data (heart rate, stress & anxiety scores) into Low/Medium/High clusters using K-Means clustering (Python, VS Code).
- Applied Agile across five iterative sprints, incorporating UI/UX refinements, automated backend tests (Postman & unit tests), AI pipeline validation, and end-to-end system testing.

Quality Education: Designed a web application based on resolving quality education for immigrants and underprivileged young adults.

- Gained knowledge of tools such as: HTML, CSS, JavaScript, GitHub, MySQL, Postman, IntelliJ Idea, React and Spring Boot, which assisted me with both my front-end and back-end development for my CV generator.
- Creating a plan on a time-based scale to finish each sprint consisting of agile methodologies in our project.
- Documenting daily meetings and holding follow-ups with team members based on their progress with their designated component.

Brunel City Airport Management System: Designed the flight seat plans for the Brunel University Airport Management System.

- Designed and planned system software, creating flowcharts, ER diagrams, and UI designs to map processes and visualize the system.
- Reviewed final documents for grammatical accuracy to ensure quality before submission.
- Utilized Java, Figma, and app.diagrams.net for development, user interface design, and diagram creation.
- Documented and presented the development process, showcasing the completed system software.

Work Experience

Retail Customer Service Manager

Ladbrokes / Corals | Uxbridge, United Kingdom
04/2023 - Current

- Assisting customers with betting inquiries related to various games and racing, while promoting available products and services and handling cash transactions efficiently.

CSR & Sustainable Business Assistant

Hatton National Bank PLC | Colombo, Sri Lanka
07/2022 - 12/2022

- Led the assessment of Greenhouse Gas (GHG) emissions for 2022, conducting follow-ups with branches on key emission factors and managing the Smart Carbon Calculator System.
- Played a key role in preparing and presenting award applications, contributing to the bank's recognition with two prestigious awards: Women-Friendly Workplace Award 2022 and Best Corporate Citizen Award 2022.

- Supported the “Oba Wenuwen Api” initiative, coordinating impactful projects such as the dry ration distribution for pregnant mother’s island wide.
- Contributed to special assignments and action items discussed at the Trustees’ meeting, ensuring alignment with the bank’s CSR and sustainability goals.

Student Leadership & Ambassador Roles

Student Course Representative

Brunel University London | Uxbridge, United Kingdom
10/2024 – 04/2025

- Advocate for the student body, serving as a voice to raise concerns and contribute to the improvement of academic standards.

President – Sri Lankan Society

Brunel University London | Uxbridge, United Kingdom
09/2024 – 04/2025

- Leading the representation and promotion of Sri Lankan culture at university events, organizing stalls, and hosting activities to engage both new and current students, while collaborating with other universities to strengthen community ties.

Student Wellbeing Ambassador

Brunel University London | Uxbridge, United Kingdom
09/2023 – 09/2023

- Assisted with the welcome week at Brunel University, engaging with new students, addressing queries about university life, attending various fairs, and supporting student participation, while adapting to a fast-paced environment and developing strong communication skills.

Student Tap Ambassador

Brunel Pathway College London | Uxbridge, United Kingdom
09/2023 – 09/2024

- Managing the Tap Ambassador platform, providing support to both international and local students with queries about Brunel, courses, and life in London.
- Created marketing content to strengthen the college’s brand.

Student Ambassador

Brunel Pathway College London | Uxbridge, United Kingdom
05/2023 & 09/2023

- Supported the administration during student registration, assisting with course registrations, addressing queries, and ensuring compliance with GDPR in a fast-paced environment.

Education

Bachelor of Science (Hons) in Computer Science (Artificial Intelligence)

2023-2025

Brunel University London | Uxbridge, United Kingdom

- Achieved **Upper Second-Class Honors (2:1)**

GCE Advanced Level | Trinity College Kandy | Sri Lanka

2019-2022

- English Literature – C, Information Communication Technology – C, Economics – C, English Language – A

Certificate of Higher Education in Computer Science (Distinction)

2019-2019

National Institute of Business Management | Kandy, Sri Lanka

Awards & Accomplishments

- **Collective Student Ambassador Award** | Brunel Pathway College London | Year 1 - Semester 2, 2023
- **Student Engagement and Participation Award** | Brunel Pathway College London | Year 1 - Semester 2, 2023
- **Independent Learner Award** | Brunel Pathway College London | Year 1 - Semester 1, 2023
- **Awarded Chorister of the Year - 2020** | Trinity College Kandy | Prize Day 2021 - 04/2022
- **Prefect** | Trinity College Kandy | 01/2020 to 05/2022
- **Conductor for the Orchestra & Singing** of Thrithva Ranga | 05/2022
- **Ranked 3rd Corporal, Saxophonist** | Trinity College Cadent Band | 01/2017 to 12/2021
- **Assistant Choir Leader** | Trinity College Choir | 01/2013 to 12/2020
- **Initiated the Gavel Toastmasters Club - Secretary** | Trinity College Kandy | 02/2019 to 08/2020