SADEEPTHA BANDARA

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Summary

A **Software Engineer** eager to join a dynamic team, building large scale, innovative software solutions with real world impact while contributing to both organizational and personal growth. A resourceful team player proficient in software development with excellent communication skills

Education

Monash University Malaysia   **Feb. 2019 – August 2023**
Bachelor of Software Engineering (First Class Honours) GPA - 3.44   *Sunway, Malaysia*
- Monash High Achiever Award 2020 to 2023
- Monash Faculty of Engineering Dean's Honours List for 2021
- Global Award for Excellence in Engineering Mathematics - 2019

Royal College, Colombo 07   **December 2018**
GCE A/L Maths Stream - A and 2B, GCE O/L - 9As   *Colombo 07, Sri Lanka*

Experience

Millennium IT ESP   **November 2021 – February 2022**
Software Engineer Intern   *Colombo, Sri lanka*
- Proposed a media server solution to be integrated with Microservice based NexusVision platform
- Prototyped multiple media server solutions on Docker for this purpose including Jellyfin, Kody, Nginx, AntMedia, and evaluated their suitability based on supported Codecs, streaming protocols, support for different client devices (iOS, Android, Web), stream security, and ease of integration with the React frontend
- Contributed to the development on the Web API for the System settings of the NexusVision Platform using ASP.NET Core Web API using C#

Monash UReview   **November 2021 – July 2022**
Freelance Backend Developer   *Sunway, Malaysia*
- Contributed to the design and development of the Django backend API for the UReview system actively used by Monash University Malaysia students to review units.
- Redesigned CSV generation feature to generate reports of unit feedback and implemented a feature to pin reviews

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Technologies/Frameworks: TypeScript, Node.js, Django, React, MongoDB, PostgreSQL, AWS, Flutter, Android
Data Analysis: R, NumPy, TensorFlow, Pandas, PySpark
Other: Agile, Scrum, Git, Linux, Docker, CI/CD, Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Functional Programming, Relational Modelling

Projects

BinBrain | *Flutter, TensorFlow, MLKit, Google Cloud Storage, Firebase*   **GitHub** | **April 2023**
- Developed a Flutter application that performs real time object detection and waste classification and won 2nd Runner Up at KitaHack 2023, a national level hackathon in Malaysia
- Implemented model inference on-device using MLKit, and implemented periodic syncing between the application and the Object detection model hosted on Firebase so that model updates may be pushed seamlessly.
- Used the Google Maps API to provide users with the location and direction to waste collection centers and recycling centers nearby.
- Created a simplified photo submission and verification feature, allowing users to contribute to the app's dataset and object detection model.

CleanChain | *PyTeal, Docker, AlgoSDK, JavaScript*   **GitHub** | **December 2022**
- Environmentalist bounty website developed on the Algorand Blockchain to connect donors to interested NGOs to clean lakes and rivers nearby for monetary reward
- Collaborated in a team of three developers and was awarded 1st Place at the ACE-SIP Blockchain hackathon organized jointly by Monash University and the Algorand Foundation.

AMI Project | *Android, Java, AWS, Protobuf, SQLite*   **February 2022 - November 2022**
- Implemented an Android Service that connects with a FitBit device and periodically syncs health data with a local database and cloud database hosted on AWS
- Enabled queuing of data in the background and parsing data into Protobuf format and feeding to a machine learning algorithm
- Worked in a team of five developers and was mentored by University researchers and an Engineer from IHMC Pensacola, Florida

SpaceInvaders | *TypeScript, RxJS Observables*   **GitHub** | **November 2021**
- Implemented a Classical Space Invaders game for an introductory unit to Functional programming making use of RxJS observables with pure functions

Volunteering / Other

- Student Volunteer at Engineers Without Borders, Monash University Malaysia Chapter - Contributed to refurbishing three laptops for use by students from underprivileged communities
- Accredited as a Standard Mental Health First Aider by Malaysian Mental Health Association (2023 - 2026)
- TeaMWork Intern - Collaborated in an international, interdisciplinary team of students across Australia, Malaysia and the UK partnered with Decathlon Hong Kong, to introduce a Bring Your Own Bag(BYOB) policy in their stores