





Dimuth Karunaratna

Undergraduate Final year Student

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About Me

Innovative undergraduate software engineering student committed to excellence and the exploration of new technologies. Thinker who is creative and strategic, with strong leadership skills and the ability to work independently and collaboratively. Seeking an internship in a professional software development environment to gain hands-on experience and contribute to a team that values collaboration and innovation.



<https://github.com/DimuthKarunaratna>



https://www.linkedin.com/in/dimuth-karunaratna-396b9b21a/?trk=opento_sprofile_goalscard

Experience

Software Engineering Intern at IFS (2023 July - 2024 August)

Experience Frame Work - Visualisation Team

As an Undergraduate Trainee Software Engineer at IFS, I participated in the development and enhancement of enterprise software, specifically focusing on web client frameworks within the Experience Framework team. My role involved addressing functional and technical issues, implementing feature enhancements, and ensuring the reliability of the IFS Cloud web client framework through automated testing and release validation.

Key Responsibilities & Contributions:

- Technical Issue Investigation & Resolution
 - Diagnosed and resolved customer-reported issues affecting Windows and web client frameworks.
 - Identified root causes, implemented fixes, and recommended configuration changes to improve system performance.
 - Worked closely with cross-functional teams to understand customer requirements and align solutions with business needs.
- Feature Enhancements & Development
 - Designed and implemented improvements to existing features in the IFS Cloud web client framework.
 - Contributed to the development of new functionalities, ensuring an enhanced user experience.
 - Applied Object-Oriented Design (OOD) principles to develop scalable and maintainable solutions.
- Automated Testing & Quality Assurance
 - Developed and maintained automated unit tests using Jest to ensure functional accuracy and reliability.
 - Implemented end-to-end tests with Cypress, verifying system behavior across various scenarios.
 - Conducted release validation and certification tests, ensuring new updates met the required quality standards.
- Technology & Tools Exposure:
 - Frontend Development: Angular, TypeScript, HTML5, CSS
 - Testing & Automation: Jest (unit testing), Cypress (end-to-end testing)
 - Version Control & Collaboration: SVN, Bitbucket, SourceTree, JIRA
 - Infrastructure & Tools: Docker, Visual Studio Code

Key Takeaways & Skills Developed:

- Strengthened problem-solving and debugging skills by tackling real-world technical challenges.
- Gained practical exposure to enterprise cloud-based development and web client frameworks.
- Improved collaboration and communication skills by working within an agile development team.
- Enhanced proficiency in automated testing and software quality assurance.

This internship provided a strong foundation in enterprise software development, equipping me with technical expertise and hands-on experience in modern web technologies and cloud-based solutions.

Education

- Reading BEng (Hons) in Software Engineering
University of Westminster affiliated with
Informatics Institute of Technology
- 2020 Certificate in Software Engineering
National Institute of Business
Management(NIBM))
2019-2020
- 2020 G.C.E Advanced level Examination
Mahanama College - Colombo 03

Hard Skills

- Python Java
- JavaScript
- Ruby
- Web development
- Android and iOS development
- UI and UX development
- Flutter & Dart
- MySQL

Soft Skills

- Teamwork
- Leadership
- Problem-Solving
- Collaboration
- Accountability
- Adaptability
- Being a quick learner

Extra curricular activities

At IFS

- Rugby Player

At University

- Official member of Rotaract Club of IIT.
- Official member of Mozilla Club of IIT
- Micro project member of rotaract club

At School

- Debating Team Leader.
- House Games Captain
- Senior Perfect
- Excellence in Cricket and Rugby.

Projects

- OnGoing **Accident anticipation Model which predict Airbag s
deployed based upon the dashcam .(Final Year -
project)**

Developed a machine learning-based system to predict accidents from dashcam videos and determine airbag deployment. Utilised YOLOv8 for object detection, DeepSORT for motion tracking, and extracted key features (speed, acceleration, distance, time-to-accident). Trained a Logistic Regression where which as capability of making real-time decision-making using a probability-based threshold ($p > 0.5$) for airbag deployment. Optimised system for real-world applications in vehicle safety where currently current approach holds novel approach due live motion tracking features
developed using YOLOv8 and DeepSort ,Linear regression Model

- 2023 **Diabuddies Mobile application (Second-year group
project)**

Diabuddies Mobile application(Software Development Group Project)
Predicting the blood glucose level of diabetes patients using machine learning and suggesting a personalised diet plan
Skin consultation management system Developed using java by using OOP concepts with
a GUI developed using JavaFX

- 2023 **Hospital Management System**

A console version for hospital management staff and a GUI version for both patients and management staff. The management staff can control the doctors under different specialisations as well as the consultations for those doctors. Also the patients can search for doctors and add a consultation with the doctors. **Technologies:** Java, Swing

- 2022 **Fuel Queue Management System**

A console version and a GUI version which can be used by the management of the fuel queue centre to manage the queues at fuel pumps in the centre by handling passengers effectively. This project was mainly focused to address the issues occurred during the fuel crisis happened recently in Sri Lanka. **Technologies:** Java, Java fx

- 2022 **Tourist booking Site (First-year group
project)**

Led the team in this group project. A Tourist booking Site is a website which was developed targeting the users who are interest in booking there destinations in sri lanka. The users can use the website to be search current destination places in sri lanka . **Technologies:** HTML 5, CSS, Javascript

- 2022 **Student Grading Prediction System**

A console version which can be used by the university administrators to predict the grading of a particular student by just inputting the relevant credit. The system also allows to view the vertical and horizontal histograms to get an overall idea about the students' progresses. **Technologies:** Python

Reference

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at IFS Sri Lanka

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