

# AKINDU KARUNARATNE

## SOFTWARE ENGINEERING UNDERGRADUATE



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Ratmalana

## EDUCATION

### BEng (Hons) Software Engineering University of Westminster, UK

2022 - Present

- Second Year Results**
  - Object-Oriented Programming - 97%
  - Database Systems - 90%
  - Algorithms - *Pending*
  - Server-Side Web Development - *Pending*
  - Machine Learning and Data Mining - *Pending*
  - Software Development Group Project - *Pending*
- First Year Results (Average: 91.33%)**
  - Mathematics for Computing - 100%
  - Software Development I - 96%
  - Computer Systems Fundamentals - 95%
  - Software Development II - 92%
  - Web Design and Development - 87%
  - Trends in Computer Science - 78%

### Primary & Secondary Education S. Thomas' College - Mount Lavinia.

2008 - 2021

- Pearson Edexcel International  
Advanced Level - 2021**  
**Results: 4 A\*'s**
  - Further Mathematics - A\*
  - Information Technology - A\*
  - Mathematics - A\*
  - Physics - A\*
- G.C.E Ordinary Level - 2018**  
**Results: 9 A's**

## PERSONAL STATEMENT

I am a young software engineering undergraduate with a strong passion for technology. I am committed to continuous learning and growth, always seeking out new technologies and approaches to stay ahead of the curve. With my team-oriented mindset and positive attitude, I am confident that I can bring fresh perspectives and creative solutions to any organization.

## PROJECTS

### Personal Portfolio Website

- This portfolio website showcases my past projects and other personal information as well as highlight the potential I have to learn and grow in the industry.

**Technology Stack:** HTML, CSS, JavaScript

### SafeDrive : A Driver Fatigue Detection App (Jan 2023 - Present)

University of Westminster / IIT

- Leading the team to develop a Mobile Application which detects if a driver is fatigued using real-time image processing and machine learning algorithms.

**Technology Stack:** Python, Flutter/Dart, TensorFlow, Git

### Skin Consultation Management System (Nov 2022 - Jan 2023)

University of Westminster / IIT

- A Skin Consultation Management System which can manage doctors through a console system while also managing patients and consultations through a Graphical User Interface using Java OOP concepts.

**Technology Stack:** Java, Java Swing

### Fuel Queue Management System (Jun 2022 - Aug 2022)

University of Westminster / IIT

- A Fuel Queue Management System which was designed to simultaneously handle 5 fuel pumps with a maximum of 6 customers each. A Graphical User Interface was also implemented to visualise the details of customers in each queue.

**Technology Stack:** Java, JavaFX

### Iceman Racing Website (Jun 2022 - Jul 2022)

University of Westminster / IIT

- Led the team in this group project where we developed a website for a fictional Formula One Racing Team.

**Technology Stack:** HTML, CSS, JavaScript

### University Progression Outcome Predictor (Mar 2022 - Apr 2022)

University of Westminster / IIT

- A progression outcome predictor which can be used by both students and staff at a university.

**Technology Stack:** Python

## SKILLS

### Technical Skills

- Java
- Python
- HTML
- CSS
- JavaScript
- TensorFlow
- Flutter/Dart
- MySQL
- PHP
- R

### Non-Technical Skills

- Leadership
- Teamwork
- Attention to Detail
- Communication
- Problem Solving
- Time Management
- Critical Thinking

## VOLUNTEERING

### Secretarial Team Volunteer

IEEE Computer Society Student Branch  
Chapter of IIT  
Jan 2023 - Present

### IndustPro 2.0 | Editorial Team

IEEE Computer Society Student Branch  
Chapter of IIT  
Jan 2023 - Present

### Secretarial Team Volunteer

Mozilla Campus Club - IIT  
Oct 2022 - Present

### OpenHack '22 | Secretarial Team

Mozilla Campus Club - IIT  
Oct 2022 - Jan 2023

### Parallax '22 | General Volunteer

Rotaract Club of IIT  
Sep 2022 - Oct 2022

### Committee Member

The Ternion - S. Thomas' College -  
Mount Lavinia  
Mar 2019 - Jun 2021

### Committee Member

IT Society - S. Thomas' College -  
Mount Lavinia  
Jan 2016 - Jan 2021

## HONORS AND AWARDS

- Prize for the Student with the Best 2021 London Advanced Level Results - (2022)
- L4 (1st Year) Batch Representative - Software Engineering Batch - (2022)
- Prize for the Best Results at the 2018 G.C.E. Ordinary Level Examination - (2020)
- Prizes for achieving the highest marks for each of the following subjects: Further Mathematics, IT, Mathematics and Physics - (2020)
- Won multiple Form Prizes and Special Prizes at the Annual College Prize Giving - (2010, 2013, 2014, 2015, 2017, 2018, 2019, 2020 & 2022)
- House Prefect - S. Thomas' College, Mount Lavinia - (2019 - 2021)
- Junior Prefect - S. Thomas' College, Mount Lavinia - (2015)

## EXTRA CURRICULAR ACTIVITIES

### Quiz Club (2016 - 2021)

S. Thomas' College - Mount Lavinia

- Secretary of the Quiz Club - (2019 & 2020)
- Captained the College team that placed second at the "Big Match IQ Quiz" hosted by Neth FM- (2019)
- Member of the College team which emerged Champions at the inaugural "Trident Challenge Shield" hosted by Wesley College - (2019)
- Captained the College team at the "Pentathlon" Quiz Show organized by TV1 - (2018)
- Captained the College team at the "Blue and White Quiz" organized by St. Joseph's College and finished in the Top 10 - (2018)

### Scrabble (2013 - 2021)

S. Thomas' College - Mount Lavinia

- Secretary of the Under - 19 Scrabble Team - (2021)
- Captain of the Under - 15 Scrabble Team - (2018)
- Champions at the annual Royal - Thomian Encounter - (2017 & 2019)

### Football (2013 - 2019)

S. Thomas' College - Mount Lavinia

- Member of the Under - 17 squad - (2018)
- Member of the Under - 15 'A' team which won the Annual Trinity - Thomian Football encounter - (2015)
- Member of the Under - 13 'A' team which won the Annual Royal - Thomian Football encounter - (2014)
- Member of the Under - 13 'A' team which won the Annual Trinity - Thomian Football encounter - (2014)

### Chess (2012 - 2020)

S. Thomas' College - Mount Lavinia

- Member of the Under - 13, Under -15 and Under -17 Teams.
- Participated in the Under - 15 Royal - Thomian Encounter - (2016)
- Achieved a Merit award at the Gary Kasparov Chess Challenge - (2012)

## REFEREES

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