

# ANUSAN KRISHNATHAS

## Computer Science & Engineering Undergraduate

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Jaffna, Sri Lanka

LinkedIn

GitHub

Portfolio



## EXPERIENCE

### Web Development Team Member

#### IEEE Computational Intelligence Society - Srilanka Section (National Level)

Jan 2026 – Present

- Manage website performance, security, and functionality, ensuring high availability and regular content updates.
- Directed digital operations and social media strategy, virtual event setups, and content execution across LinkedIn and Facebook to enhance chapter engagement.

### Web Development Team Member

#### IESL RoboGames Competition

Dec 2025 – Jan 2026

- Designed and developed the official website for IESL RoboGames 2026 from the ground up.
- Optimized platform performance to handle high-traffic loads during the national-level event.

### Webmaster

#### IEEE ComSoc Student Branch (UoM)

Oct 2025 – Present

- Designed and developed the official website from the ground up, ensuring a fully custom and optimized solution.
- Manage website performance, security, and functionality.
- Collaborate with ex-com to implement digital features.

### Web Development Team Member

#### Mora Exams

Nov 2023 – Feb 2024 & Apr 2025 – Dec 2025

- Developed a specialized Finance Dashboard using React, Tailwind CSS, and shadcn/ui to manage financial activities and fee tracking for G.C.E. A/L pilot examinations.
- Engineered a high-performance backend infrastructure with Go and MySQL, ensuring secure storage and efficient processing of A/L results and financial records during the pilot phase.

## PROJECTS

### Library Management Ecosystem

#### Flutter, Next.js, FastAPI, Supabase, Asgardeo

Dec - Present

github.com/krish-anu/LibraryApp

- Architected and deployed a live management system for Focus Library, Colombo, utilizing a Flutter mobile app and Next.js dashboard with FastAPI and Supabase.
- Integrated Asgardeo Identity Server for enterprise-grade CIAM and secure role-based access, automating inventory workflows and fine calculations for real-time production usage.

## PERSONAL PROFILE

I am a Computer Science and Engineering student skilled in Full-Stack Development, specializing in Data Science and Engineering with Machine Learning to build intelligent, scalable solutions.

## EDUCATION

### B.Sc. Engineering (Honours)

#### University of Moratuwa

Mar 2023 – Present

- Specialization: Data Science Engineering Stream
- CGPA: 3.53 / 4.0
- Honours: Placed on the Dean's List for academic excellence in Semester 1.
- Coursework: Data Structures & Algorithms, OOP, DB Systems, OS, AI.

### G.C.E Advanced Level

#### J/Nelliady Central College

2014 – 2022

- 3As (Combined Maths, Physics, Chemistry)
- District Rank: 12 | Island Rank: 349

## TECHNOLOGIES

### Programming Languages

Go Python Java C++  
JavaScript TypeScript SQL

### Web Frameworks & Libraries

React Next.js Node.js FastAPI  
Astro Fiber Tailwind CSS  
shadcn/ui

### Databases & Cloud

MySQL PostgreSQL MongoDB  
Supabase AWS (EC2, S3) Stripe API

### Mobile Development

Flutter React Native

### DevOps & Tools

Docker GitHub Actions CI/CD  
Linux Asgardeo Git

## BrightBuy (Retail Inventory System)

React, Node.js, MySQL, Docker, AWS, Stripe

📅 Aug 2025 - Oct 2025

🔗 [github.com/krish-anu/BrightBuy](https://github.com/krish-anu/BrightBuy)

- Engineered a full-stack platform with **Stripe API** for secure payment automation and **JWT authentication** to manage role-based retail access.
- Developed an advanced **MySQL database architecture** utilizing **Stored Procedures, Triggers, and Functions** to handle complex business logic directly at the database level.
- Orchestrated a **DevOps pipeline** using **Docker containerization** and **GitHub Actions** for automated deployment to **AWS EC2 and S3**.

## Mora Exams

Astro, React, Go, MySQL, shadcn/ui

📅 Nov 2023 - Feb 2024 & Apr 2025 - Dec 2025

🔗 [github.com/moraexams/website](https://github.com/moraexams/website)

\*Admin codebase private for security purposes

- Developed a **Finance Dashboard** using **React and shadcn/ui** to manage financial records and fee tracking for a **G.C.E. A/L pilot examination** platform.
- Engineered a high-performance **Go backend** to securely process and store examination results for **hundreds of concurrent users** during peak traffic.
- Designed a responsive **Tailwind CSS** interface and optimized **MySQL schemas** to ensure data integrity and seamless navigation across administrative workflows.

## Full-Stack Todo Application

React, Go (Fiber), MongoDB

📅 July 2025 - Oct 2025

🔗 [github.com/krish-anu/ToDoApp](https://github.com/krish-anu/ToDoApp)

- Built a high-performance RESTful API using the **Go Fiber framework**, leveraging asynchronous patterns to handle **concurrent requests** with minimal latency.
- Integrated **MongoDB** for scalable, document-oriented storage, ensuring efficient handling of unstructured user-generated task data.
- Implemented a **React frontend** with optimized state management to provide real-time UI updates and a fluid, cross-device user experience.

## 4-bit Nanoprocessor Design

VHDL, Vivado, ModelSim

📅 Sep 2025 - Oct 2025

🔗 [github.com/krish-anu/Nano-Processor-Project](https://github.com/krish-anu/Nano-Processor-Project)

- Architected a 4-bit Nanoprocessor at the **Register Transfer Level (RTL)**, supporting a custom **Instruction Set Architecture (ISA)** including MOV, ADD, and JZR.
- Developed core hardware modules in **VHDL**, including a dedicated **ALU, 3-bit Program Counter, and Register File** to orchestrate synchronized execution cycles.
- Validated design integrity via **VHDL testbenches** and timing analysis in **Vivado**, ensuring logical correctness and signal stability during simulation.

## CERTIFICATIONS

Fundamentals of Accelerated Data Science

NVIDIA

📅 Dec 2025

Credential ID: P7Hq1rEUS6OwvnVGaNDow

🔗 [View certificate](#)

The Complete 2025 Fullstack Web Development

Udemy

📅 Aug 2025

Credential ID:

UC-919fd800-fae2-4fe4-bab2-ccddc75956d

🔗 [View certificate](#)

## ACHIEVEMENTS

- Coderally Hackathon Finalist
- UOJ Coders Finalist
- Math Olympiad (2017) Provincial 3rd

## VOLUNTEERING

- IR Coordinator (iGV Function), AIESEC**  
Managed global partnerships and pitched projects via international IR calls.
- Webmaster, IEEE Communications Society (ComSoc) Student Chapter**  
Oversaw website maintenance and technical operations for the chapter.
- Web Development Team, IESL RoboGames Competition**  
Executed full-stack development tasks for the competition's digital platform.
- Web Development Team, Mora Exams**  
Developed a high-performance web platform for G.C.E. A/L Pilot Exams.
- Volunteer Mathematics Tutor, Soysoru Sathkara**  
Tutored G.C.E. O/L students to improve academic and exam performance.

## SOFT SKILLS

First-Principles Thinking

Leadership

Problem Solving

Continuous Learning

Adaptability

Accountability

Teamwork

Communication