



CHETHIYA HITIHAMU

SOFTWARE ENGINEER

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chethyanuwan.github.io/portfolio



ABOUT ME

Motivated and detail-oriented individual with a strong foundation in developing efficient and user-focused solutions. Skilled in problem-solving, team collaboration, and delivering results in dynamic environments. Passionate about continuous learning and innovation, eager to contribute to impactful projects as a Software Engineer.

WORK EXPERIENCE

Software Engineer Intern, DirectFN

Jan 2023 - Jun 2023

- Developed two key projects from ground up as part of the Market Data Backend team.
 - Market Data Update Checker:** an internal testing tool to visualize company's market data streams. (React, Redux, WebSocket, MUI)
 - MBE API Portal:** a role-based API documentation platform with session management via cookies. Deployed to AWS. (Docusaurus, React, Bun.js, Prisma ORM, PostgreSQL, Docker)
- Collaborated as a key member of the organizing team to plan and execute successful team outings.

EDUCATION

Bachelor of Science (Honours) in Information Technology

May 2021 - Aug 2025

University of Moratuwa

- CGPA 3.5 (up to semester 7)
- Conducted research on "Enhanced Legal Question Answering with Advanced Retrieval Methods," exploring innovative retrieval techniques to improve accuracy and efficiency in automated legal query systems in Sri Lanka.
- Related Coursework:**
 - Followed SE principles, OOP, enterprise app development, and IT project management, building a strong foundation in software development and system design.
 - Studied AI, NLP, data mining, big data analytics, and logic programming, expanding knowledge in AI/ML and data-driven technologies.
 - Gained a deep understanding of operating systems, computer networks, network programming, and cluster computing.
 - Acquired hands-on experience in SQL, NoSQL databases, database design, and performance optimization.
 - Explored embedded systems, focusing on hardware-software integration and real-time data processing.

PROJECTS

Business Admin Web Application

(Commercialized)

- Developed for AS Enterprises to manage suppliers, customers, sales, purchases, stock, and transactions with automated due amount and profit calculations. Features token based authentication, advanced search, filtering, and a dashboard with sales insights. Supports Excel exports and PDF invoices/bills for transactions. Hosted on cPanel, actively streamlining business operations.
- Tech Stack:** Refine (React, Ant Design), Bun.js, Hono, Prisma ORM, PostgreSQL

PROJECTS CONT'D

E-Commerce Web Application

(Commercialized)

- Developed for Super Supply Impex to sell day to day items and groceries online. Features token based authentication, category based search, filtering, admin panel for inventory management, and social login. Hosted and in UAT stage preparing for deployment.
- **Tech Stack:** Next.js, Tailwind CSS, Node.js, Express, MySQL

Supermarket E-Commerce Backend

(Completed)

- Developed a scalable backend for a supermarket e-commerce platform using microservices architecture for modularity and performance. Designed for high availability, handling orders, inventory, and user authentication while implementing microservices best practices for resilience and scalability.
- **Tech Stack:** Spring Boot (Microservices), MongoDB, Firebase Cloud

ZoneEd - School Management System with Zonal Coordination

(Completed)

- Developed a school management system to improve efficiency and coordination under the zonal director, overseeing processes through the system. Supports six user types with features for teacher schedules, student attendance, mark sheets, notices, and project tracking. Led the project as group leader, ensuring smooth implementation.
- **Tech Stack:** Angular, Spring Boot, MongoDB, Firebase Cloud, Material UI

Expense Tracker

(Ongoing)

- Developing a personal finance app for tracking income, expenses, and savings with category-based tracking, budget management, visual breakdowns, and data export. Plans to add recurring expense reminders for a seamless user experience.
- **Tech Stack:** Blazor, Bootstrap, ASP.NET Core

Automated Testing Suite for API & Web

(Completed)

- Developed automation testing suites for API and web testing, implementing BDD architecture, Page Object Model, and Gherkin test case definitions. Followed QA best practices and integrated with Jenkins for continuous testing and deployment.
- **Tech Stack:** Serenity BDD, Cucumber

ADDITIONAL INFORMATION

- **Programming Languages:** Java, Python, JavaScript, TypeScript, C#, PHP, C++, C
- **Frameworks:** React.js, Angular, Next.js, Blazor, Spring Boot, Node.js, ASP.NET Core, Bun.js, Express.js, Hono, Redux, shadcn, Tailwind
- **Database and ORM:** MySQL, MSSQL, PostgreSQL, MongoDB, Prisma, Hibernate, Mongoose
- **Other Technologies:** Docker, Azure, Firebase, Supabase, Selenium, Cucumber
- **Non Technical Skills:** Leadership, Adaptability, Team Work, Problem Solving, Effective Communication, Creativity, Presenting
- **Interests and Hobbies:** Coding, Designing, Travelling, Movies, DIY, Photography, Music, Gaming
- **Achievements/Activities:** Runners-up in the Inter-University eSports Championship (COD Mobile) by Mora Esports Community. Participated in Mora UXplore 1.0 by IEEE Student Branch, Volunteered in the SURVLEOS project by LEO Club.

NON - RELATED REFEREES

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