

Chithraka Kalanamith

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Summary

I'm a 3rd-year Computer Science undergraduate with hands-on experience in frontend web development, game design in Unity, machine learning projects, and technical blogging **actively interested in full-stack and software engineering roles**. Proven ability to work on diverse, real-world projects both independently and in teams, while effectively communicating complex technical concepts through written content.

Education

Bachelor of Science in Computer Science (Undergraduate)
NSBM Green University

November 2022 - Present

GCE Advanced Level (Physical Science Stream)
Central College Kuliyaipitiya (Index no - 2746414)

August 2020

Technical Skills

- **Programming Languages:** Java, JavaScript, C#, SQL, Python, C
- **Web Technologies:** HTML, CSS, React, Express.js, Node.js, Tailwind CSS, Firebase, MongoDB
- **Tools/Platforms:** Git, GitHub, Visual Studio, VS Code, MySQL, Google Colab, Unity, Netlify, Vercel
- **Core Competencies:** OOP, MVC, Agile, Data Structures, RESTful APIs, JWT Authentication, Algorithms, AI/ML fundamentals
- **Soft Skills:** Self-Motivation & Passion, Creativity, Communication, Problem-Solving & Adaptability, Leadership, Critical Thinking

Projects

MediHelp – Clinic Management System (2025)

<https://medihelp-clinic.netlify.app/> [Github Link]

- Built a fullstack web application for managing patient appointments, treatment records, and doctor schedules in a local clinic setting. Features include role-based authentication for doctors and patients, appointment booking, and secure CRUD operations.
- Designed RESTful API endpoints with Express.js and MongoDB, integrated JWT-based login systems, and implemented responsive interfaces with React and Tailwind for real-world usability.

Technologies: React, Node.js, Express.js, MongoDB, JWT, Netlify, Vercel, Render

2D Platformer Game - (2024 - 2025)

<https://chithraka.itch.io/the-pie-verse-chronicles-2d>

- Developed a feature-rich 2D platformer in Unity with custom combat system, multiple enemy AI types, interactive dialogue system, 2D water physics, parallax scrolling, and dynamic lighting. Built comprehensive game systems from scratch, UI, audio integration, and checkpoint/respawn functionality.
- Published the playable demo on Itch.io and recently recognized by the popular streamer who inspired the main character.

Technologies: Unity (2D), C#, URP, Custom Shaders (HLSL), Cinemachine, GitHub

Breast Cancer Prediction AI Model (Research Project) - In Progress 2025

- A breast cancer detection system using traditional ML models, comparing performance across classifiers like Random Forest, XGBoost, and CNN. Extracted features from mammogram images and evaluated models using confusion matrices, ROC-AUC, and cross-validation.
- Currently working on extending the project with deep learning (CNN) models for improved accuracy and image-based learning.

Technologies: Python, NumPy, Google Colab, Logistic Regression, Decision Trees, Random Forest, XGBoost Classifier

Chef Claude - AI-Powered Recipe Generator

<https://chef-digital.netlify.app/> [\[Github Link\]](#)

- Developed a React-based web app that uses Google's Gemini AI to generate personalized recipes from user-provided ingredients. Features dynamic ingredient form handling, markdown-rendered AI responses, and a responsive, mobile-friendly UI.
- Implemented saved recipe functionality using Firebase, secured API integration through environment variables, and optimized UX for seamless user interaction.

Technologies: React, Vite, Google Generative AI, JavaScript, FireBase

Portfolio Website - 2025

chithraka-dev.netlify.app/ [\[Github Link\]](#)

A personal portfolio built with React.js featuring dynamic animations, dark/light theme switching, and interactive navigation. Showcases professional projects, technical skills across multiple stacks, certifications, and education through glass orphic UI components with smooth scroll-based transitions and mobile-first responsive design

Technologies: React, Vite, HTML, CSS, JavaScript

Yaman Travels (In Progress) - 2025

<https://yaman-travels.netlify.app/> [\[Github Link\]](#)

Developing a travel-focused website featuring destination guides, service listings, and customizable travel packages. Planning integration with Gemini API to provide intelligent suggestions for services and packages based on user-entered destinations.

Technologies: React, Vite, Google Generative AI, HTML, CSS, JavaScript

Certifications

- | | |
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| • Learn React- Scrimba [E-Certificate] | May 2025 |
| • Images with TensorFlow on Google Cloud - Google Cloud Skills Boost [E-Certificate] | Apr 2025 |
| • Introduction to Generative AI - [E-Certificate] | Sep 2023 |
| • Introduction to Java - Sololearn [E-Certificate] | May 2023 |
| • Introduction to SQL - Sololearn [E-Certificate] | May 2023 |
| • Web Development Using WordPress – Coursera [E-Certificate] | Dec 2023 |

Volunteering

- | | |
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| • Sub-Committee Member (Program Team Lead)
<i>Association of Computer & Data Science – NSBM</i> | August 2024 - Present |
| • Executive Board Member (Event Coordinator)
<i>Student Circle of Computer Science & Software Engineering – NSBM</i> | July 2023 - December 2023 |
| • Sub-Committee Member (Event Coordinator)
<i>NSBM ISACA Student Group</i> | March 2023 - March 2023 |
| • Sub-Committee Member
<i>International Centre for Cultural Exchange of NSBM</i> | May 2023 - December 2023 |
| • Senior Corporal
<i>Cadet Band of Central Collage Kuliapitiya</i> | January 2017 - December 2019 |

References

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