

Jathursika Velummayilum

Software Engineer

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👤 Jathursi
👤 Portfolio/



Profile

Software Engineer with hands-on experience in Full Stack development, focusing on building scalable APIs, implementing authentication systems, and integrating database-driven features. Currently learning DevOps practices to enhance deployment automation and CI/CD workflows. I look forward to applying my skills to real-world problems and continuously improving.

Experience

Internship

D P Infotech Private Ltd.

June 2025 – Present

Worked on developing, maintaining, and debugging software solutions across multiple platforms, including a **.NET-based ERP system** and a **CodeIgniter (PHP MVC) web application**. Built full-stack web applications using **Laravel** with **Blade templates** and **AJAX** for responsive user experiences, and developed a **Python desktop application** to automate internal business processes. Gained strong hands-on experience in **full-stack development**, debugging, agile teamwork, and project best practices.

Education

Bachelor of Science Honours in Computer Science, University of Jaffna

2021 - Present

CGPA: 3.07 (credit 68/120)

DevOps Master Program, NerXperts (PVT) LTD

Jan 2026 – Present

Learning and mastering core DevOps practices including **CI/CD pipelines**, **Docker containerization**, **Kubernetes orchestration**, **cloud computing**, and **infrastructure automation**.

Achievements

Research Poster Presentation – SL-SWCS'25

Dec 13, 2025

Sri Lanka Student Workshop on Computer Science (SL-SWCS) – University of Jaffna

Presented a research poster on **Transformer-based Semi-Supervised Learning for Skin Lesion Classification**.

Projects

Transformer-based Semi-Supervised Learning for Skin Lesion Classification

2025

Undergraduate Research Project

- Developed a transformer-based semi-supervised learning pipeline for skin lesion classification using Vision Transformers (ViT), improving medical image recognition by leveraging both labeled and unlabeled dermoscopic images. Implemented preprocessing, augmentation, and model training/evaluation workflows to enhance classification robustness and generalization.
- **Tools:** PyTorch, Python, Google Colab.

AI-Based Recipe Generator

2025

- Built an AI-powered recipe generation web application that creates personalized recipes from user-provided ingredients. Integrated Flan-T5 for natural language recipe generation and TheMealDB API to enrich recipes with real-time meal data, delivering structured outputs including recipe title, ingredients, and step-by-step instructions.

- **Tools:** Next.js, Tailwind CSS, Flan-T5, Hugging Face, TheMealDB API. [Github](#) ↗

E-Commerce Website with Responsive Chatbot

2025

- Developed a full-stack e-commerce website with a responsive AI chatbot to assist users with product inquiries and navigation. Designed a clean UI, implemented backend APIs for product handling, and integrated a chatbot interface to improve customer interaction and usability across devices.
- **Tools:** React.js, Node.js, Python, Flask, MySQL. [Github ↗](#)

IIS City Campus Website

2025

- I developed and maintained the IIS City Campus website, ensuring smooth functionality and an improved user experience.
- **Tools:** React.js, Firebase, Contentful CMS [Github ↗](#)
- **Website:** https://jathursi.github.io/IIS_City_Campus/

Vehicle Management (E-job Card) Website

2024

Undergraduate Team Software Development - Team Lead

- I led the development of a Vehicle Management (e-job card) project, creating a system to Manage vehicle services, maintenance records, and job cards, improving operational efficiency.
- **Tools:** React.js, Node.js, MySQL [Github ↗](#)

Languages

Tamil: Native Language

English: Professional Level

Skills

Programming Languages: Python, JavaScript, Java, C#, PHP

Web Development: React.js, Node.js, Next.js, Flutter, .NET, Laravel

Databases: MySQL, MariaDB, MongoDB, Oracle, Sequelize ORM

Tools: Git, GitHub, Docker, Postman

AI/ML Tools: PyTorch, Hugging Face, Google Colab

IDEs: Visual Studio, IntelliJ IDEA, MATLAB, Cursor

Cloud: AWS

Platforms: Windows, Linux

Certifications

Certificate of participation: UoJCoders V3.0. University of Jaffna.

2024

30 Days Machine Learning. E-Learning, NoviTech. NT B1ML167

2024

Honours Diploma in Computer Application. Ramanathapuram, India.

2016

Certificate in Student Computer Package. Vethalai, Ramanathapuram, India.

2011

Referees

Prof. M. Siyamalan

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