

# Jathursika Velummayilum

## Software Engineer

📍 Suthumalai, Jaffna, Sri Lanka

✉ jathukirubajathu@gmail.com

in jathursika-velummayilum

☎ +94 76 005 2687

🔗 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

June 2025 – Present

D P Infotech Private Ltd.

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](#) 

<b>E-Commerce Website with Responsive Chatbot</b>	2025
<ul style="list-style-type: none"> <li>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.</li> <li><b>Tools:</b> React.js, Node.js, Python, Flask, MySQL. <a href="#">Github</a> </li> </ul>	

<b>IIS City Campus Website</b>	2025
<ul style="list-style-type: none"> <li>I developed and maintaining the IIS City Campus website, ensuring smooth functionality and an improved user experience.</li> <li><b>Tools:</b> React.js, Firebase, Contentful CMS <a href="#">Github</a> </li> <li><b>Website:</b> <a href="https://jathursi.github.io/IIS_City_Campus/">https://jathursi.github.io/IIS_City_Campus/</a></li> </ul>	

<b>Vehicle Management (E-job Card) Website</b>	2024
Undergraduate Team Software Development - Team Lead	
<ul style="list-style-type: none"> <li>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.</li> <li><b>Tools:</b> React.js, Node.js, MySQL <a href="#">Github</a> </li> </ul>	

## 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**

Professor,  
Department of Computer Science,  
Faculty of Science,  
University of Jaffna.

☎ +94 76 706 4194

✉ siyam@univ.jfn.ac.lk

**Mr. A V J Mahesh**

Team Lead,  
DP Infotech (pvt) ltd,  
☎ +94 77 962 0358  
✉ Janakama@dpinfotech.lk