

SHRENIK DEEP SATHIYANATHAN

SOFTWARE ENGINEERING UNDERGRADUATE

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An enthusiastic individual passionate about technology and software development, aiming to excel in my field. Regardless of challenges in my path, I possess the determination to overcome them, and I remain patient, always willing to learn, making me a congenial person to work with.

TECHNICAL SKILLS

Programming Languages

- Typescript / Javascript
- Python

Frameworks

- Next.js / React.js
- NestJs / Express.js
- FastAPI

Database / Infrastructure

- PostgreSQL / MySQL / MongoDB
- Docker
- AWS

EDUCATION

Royal Institute

Primary - High School

2009 - 2021

- Cambridge Ordinary Level
- Cambridge Advanced Level (Maths)

Informatics Institute of Technology Affiliated with The University of Westminster

Bachelor of Software Engineering with First Class Honours

2021 - 2026

PROFESSIONAL EXPERIENCE

Continental Insurance Lanka Limited

Aug 2022 - Feb 2023

SOFTWARE ENGINEER - INTERNSHIP

Worked as a PHP Developer Intern for 6 months using to build and maintain in-house applications.

Key Project: Vehicle Claims File Management System

- Developed and maintained a centralised file management, tracking, and storage system for the Vehicle Claims Department.
- Built backend features and database functionality using PHP and CodeIgniter.
- Improved document organisation, retrieval efficiency, and operational workflows.

Technology : PHP, CodeIgniter, MySQL

Bayseian, UK

Jul 2025 – Oct 2025

AI ENGINEER - APPRENTICESHIP

Completed an intensive 3-month AI Engineering Apprenticeship under industry professionals, focused on designing, deploying, and scaling production-ready AI systems.

Key Project: PII Redaction Chatbot

- Designed and deployed an AI-powered chatbot capable of identifying and redacting Personally Identifiable Information (PII) from user-provided content.
- Served the Qwen3 4B Large Language Model using vLLM for optimised inference performance.
- Deployed and managed the system on AWS EC2 infrastructure.
- Implemented API integrations and production deployment workflows for scalable AI services.

Technology : Python, FastAPI, AWS EC2, vLLM, Qwen3, Docker

ASSOCIATE SOFTWARE ENGINEER

Worked as a Full Stack Associate Software Engineer, developing end-to-end software solutions across frontend and backend systems. Responsible for designing scalable RESTful APIs, implementing business logic, and building responsive web interfaces.

Project: FieldSmart - Computerised Maintenance Management System (CMMS)

- Developed and maintained a CMMS platform for asset, inventory, contract, technician, and work order management.
- Built frontend applications using Next.js and backend services using NestJS.
- Designed PostgreSQL database structures and API integrations.
- Contributed to a product actively used by leading organisations, including Nestlé Sri Lanka.

Project: LMS and Member Management system for BASL (Bar Association of Sri Lanka)

- Developed a member and learning management system for BASL.
- Built frontend applications using Next.js and backend services using Laravel.
- Designed MariaDB structures and Moodle LMS Integration

Technology : Next.js, NestJS, Express.js, PHP, Laravel, MongoDB, PostgreSQL

Thrive360

Jun 2026 – Present

SOFTWARE ENGINEER [Contract 3 months]

Worked as a Full Stack Software Engineer

Project: SportsDuel & SquadDuel

- Developed and delivered full-stack features for SportsDuel and SquadDuel, contributing across both frontend and backend systems.
- Built and maintained scalable web applications, APIs, and database solutions using modern technologies and best engineering practices.
- Optimized application performance, resolved application issues, and collaborated with cross-functional teams to deliver reliable, high-quality software releases

Technology : Next.js, NestJS, Express.js, MongoDB, PostgreSQL

PROJECTS

1. Genesis

CLI tool published on npm that scaffolds a complete full-stack application in seconds.

- Generates NestJS backend, Next.js frontend, PostgreSQL integration, and Docker Compose infrastructure.
- Includes Better Auth, OAuth, database migrations, Swagger docs, and dev/production Docker workflows.

Technology : NestJS, Next.js, PostgreSQL, Docker, Better Auth

Link : npmjs.com/package/create-genesis

2. Papyrus

A full-stack research management platform built using NestJS, Next.js, and PostgreSQL. Includes an AI-powered research assistant designed for Retrieval-Augmented Generation (RAG) workflows over a personal document library. Generates NestJS backend, Next.js frontend, PostgreSQL integration, and Docker Compose infrastructure.

- Workspace-based organisation of research papers and notes with PDF upload and library management.
- Authentication and secure file storage.
- AI assistant interface for literature summarisation, novelty analysis, research gap detection, and agentic document tasks.

Technology : NestJS, Next.js, PostgreSQL, Docker, Better Auth

Link : <https://github.com/Shrenik0321/papyrus>

RESEARCH PAPER PUBLICATIONS & BLOGS

International Conference on Inventive Research in Computing Applications (ICIRCA)

Jun 2026

Coimbatore, India | IEEE Affiliated

Logit-Based Federated Learning Architecture for Leukemia Diagnosis under Data and Model Heterogeneity

2nd iCIIT Symposium 2026

Colombo, Sri Lanka

Jun 2026

FLEX-Med: A Federated Knowledge Distillation Framework for Acute Lymphoblastic Leukemia Cell Classification under Non-IID Data and Model Capacity Heterogeneity

Encyte, Blog

Colombo, Sri Lanka

Setting Up DocuSign Connect With Local Webhook Listener Using Ngrok With NodeJS: A Practical Guide

Link : encyte.io/article/setting-up-docusign-connect-with-local-webhook-listener-using-ngrok-with-nodejs-a-practical-guide

LEADERSHIP ROLES & EXTRACURRICULARS

- Vice president of Membership in Dehiwala Toastmasters Club **(active)**
- Director of the first Junior Optimist Club in Sri Lanka.
- Director of the Chemistry Club of Royal Institute.
- Vice president of the Hindu Society of Royal Institute.
- Played for the Royal Institute Cricket Squad and Bloomfield Cricket Academy. Played Karate for Royal Institute.
- Former Scout for Royal Institute.
- Vice president of the first Optimist Club in Sri Lanka.