

Dileeban Sekara

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About Me

Passionate about artificial intelligence, machine learning, and data science, with research interests in self-supervised learning and scalable intelligent systems. Currently deepening my expertise while preparing to pursue a PhD in data science-related fields. Alongside research, I bring hands-on full-stack development experience from my internship at ISA Pvt Ltd, where I worked with Spring Boot, RESTful APIs, Kafka, gRPC, and AWS services. Skilled in DevOps practices including CI/CD, Docker, and Kubernetes, I combine strong engineering fundamentals with a focus on building secure, scalable, and innovative AI-driven solutions.

Education

University of Kelainya, B.Sc(Hons) in Software Engineering June 2021 – Present

- GPA: 3.83/4.0

Rajasinghe Central College-Ruwanwella, G.C.E. Advanced Level(Physical Science) June 2018 – Dec 2020

- Z-score: 1.5348

Research

Eye disease detection using self supervised learning - AI/ML

I am currently working on an individual research project focused on eye disease detection using self-supervised learning and am eager to publish the findings.

Self-Supervised Learning for Image Rotation Prediction - AI/ML

Instead of using class labels, the model learns by predicting the rotation angle of an image (0°, 90°, 180°, 270°). By doing this pre project, I could be able to deep dive in the self supervised learning

Experience

Trainee software engineer, ISA (pvt) Ltd – Colombo, Sri Lanka Oct 2024 – Feb 2025

I worked with Java and Spring Boot for backend development and used both React and Angular to build responsive front-end applications. I collaborated in an agile environment using JIRA for task management and Bitbucket for version control. I was introduced to event-driven and distributed systems through tools like Kafka and gRPC, deepening my understanding of scalable microservice architectures. I developed a common JDBC mapper to connect Spring Boot applications with databases, which is now live in production. Additionally, I assisted in developing and testing web applications, implemented a reusable method for sending notifications using Spring Boot and Kafka, and created a common report-generating component used across projects in both React and Angular.

Freelancer, fiverr 2020 - present

Professional software developer with proven freelancing experience delivering high-quality frontend and backend solutions. Skilled in REST APIs, AWS, version control, and effective client communication. Ready to bring your project to life with reliable, efficient, and scalable code.

Projects

SmartSchoolHub

- A robust and comprehensive school management system has been designed to streamline the core functionalities of a school. This system efficiently manages student enrollment, time logging system, enhances administrative efficiency, improves data accuracy, and fosters a more connected educational environment.
- Monolithic project (Individual Project)
- Live in Production
- **Technologies Used:** React JS, Node Js, Express Js, JWT, MongoDB Atlas, Bootstrap, AWS s3, AWS EC2
- **Source Code:** github.com/Dileeban/source

Garage Application

- Developed the Customer Service module for a Garage Application using React and Spring Boot in a microservices architecture. Implemented secure authentication with JWT (Spring Security) and enabled inter-service communication via gRPC. Built features such as service booking, profile management, and real-time booking status tracking. Used Docker for containerization, ensuring seamless deployment and integration with other microservices.
- Microservice project (Individual Project)
- **Technologies Used:** React JS, Spring Boot, Docker, Spring Security (JWT), gRPC , MySQL, Bootstrap
- **Source Code:** github.com/Dileeban/frontendSource | github.com/Dileeban/backendSource

MediCare

- A medical application that enhances and streamlines administrative and clinical operations in healthcare facilities. It improves patient management, appointment scheduling, and medical record-keeping.
- Monolithic project (Individual Project)
- **Technologies Used:** React JS , Node Js , Express Js , JWT, MongoDB
- **Source Code:** github.com/Dileeban/source

Motor Spare Parts

- The task management system optimizes administrative and academic operations through streamlined integration of different functions, it efficiently manage the tasks of users.
- Monolithic project (Group Project)
- **Technologies Used:** PHP , HTML , Java Script, CSS , MySql
- **Source Code:** github.com/Dileeban/source

Technologies

Languages: Java, JavaScript, Python, C, C++ , C, PHP , SQL

Frameworks and Libraries : SpringBoot, React JS, Angular Js, Node JS, Express JS, ScapY, pathlib , NumPy

Databases,Cloud infrastructure : AWS, Docker, MySql, MongoDB, Oracle, Jenkins

Tools IDE s : GitHub, PostMan, Power BI, JIRA, Py Charm, VS Code, Visual Studio, IntelliJIDEA

Development and Integration Tools : REST API, grpc, Kafka, Git ,Apache build automation tool

OS : Windows, Linux

Soft skills : Leadership, Effective Communication, Googling, Time Managementm Critical Thinking

Certifications

AWS CLF-C02 Certification(2024)	view certificate
AWS Educate - Getting started with compute(2025)	view certificate
AWS Educate - Getting started with storage(2025)	view certificate
What Is Generative AI(2024)	view certificate

Languages

- English , Sinhala , Tamil

Refrees

Dr. Nalin Warnajith

Senior Lecturer(Grade II),Software Engineering Teaching Unit, Faculty Of Science, University Of Kelaniya

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