

# DINESKUMAR MURUGESAPILLAI

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🔗 [mdineskumar](https://github.com/mdineskumar)

## Technical Skills

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**Languages:** Python, Java, C++, C-Sharp, Swift, Kotlin, PHP, HTML/CSS, JavaScript, SQL

**Technologies/Frameworks/Databases:** .NET MVC, Flask, SwiftUI, UIKit, React, Angular, NodeJS, Django, Spring, Spring Boot, Git, MySQL, MongoDB, Firebase, ElasticSearch

## Education

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### University of Moratuwa

Jan. 2018 – Mar 2022

*B.Sc. Eng. (Hons) Computer Science and Engineering*

*Moratuwa, Sri Lanka*

### Jaffna Hindu College

2016

*G.C.E Advanced Level Examination*

*Jaffna, Sri Lanka*

## Experience

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### 4 Axis Solutions (Pvt) Ltd.

May 2024 – Present

*Software Engineer - iOS*

*Colombo, Western Province*

- Developed the layout feature in Art Space, enabling users to create multiple layouts and add artworks to each layout item. Implemented guidelines that assist in aligning layout items vertically and horizontally when moving them, ensuring precise placement and consistent design throughout the interior space.
- Swift, SwiftUI, Firebase**

### 4 Axis Solutions (Pvt) Ltd.

May 2022 – May 2024

*Software Engineer - Android*

*Colombo, Western Province*

- Developed functionalities of a drawing engine, including fill bucket, gradient fill bucket, stencil coloring, timelapse video generation, and ruler features, by designing and implementing their underlying logic and algorithms. Utilized C++ and OpenGL ES with the Android NDK for efficient real-time rendering and resource management.
- C++, Java, Android Native Development Kit(Android NDK), OpenGL ES**

### SwissRanks (Pte) Ltd.

Oct 2020 – Mar 2021

*Trainee Software Engineer*

*Singapore*

- Worked on an Enterprise Resource Planning (ERP) system project aimed at streamlining business processes and improving efficiency.
- Worked and implemented new features on existing modules of the ERP system.
- Conducted thorough testing and debugging to identify and resolve issues.
- ASP.NET MVC, JavaScript, HTML/CSS**

## Projects

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### FYP - Neural Based Tamil Grammar Error Detection | *Python, Flask, Angular, Azure*

May 2022

- Developed a Tamil grammar error detection web application using a multi-class classification system with IndicBert, achieving an F1 score of 97.5 through fine-tuning on a grammar error annotated corpus generated with Thamzhi language tools.
- 🔗 [tamgramcheck-fyp](#)

### Distributed Chat Application | *Java*

April 2022

- Developed a distributed chat application with leader selection for the chat server using the Fast Bully algorithm and implemented Heartbeat monitoring for server fault recovery.
- 🔗 [chat-application](#)

### TravelMe - Online Tour Planning Platform | *ReactJS, NodeJS, Python, MongoDB*

November 2020

- Developed an online tour planning platform using Dijkstra's algorithm for route optimization, implemented a web crawler for gathering reviews, and applied sentiment analysis for place and hotel recommendations.
- 🔗 [travelme](#)

### Online Book Rental Application | *PHP, JavaScript, HTML/CSS, MYSQL*

October 2020

- Developed a book rental web application, implementing full-text search, faceted filtering, and MVC architecture for efficient book retrieval and structured code.


## Personal Project - Simple Notes | *Kotlin, MVVM, Clean Architecture, Room Database, Dagger-Hilt*

Aug 2024

- Developed and deployed a note-taking app, Simple Notes, on Google Play using MVVM and Clean Architecture, integrated Room Database for CRUD operations, and managed dependency injection with Dagger-Hilt.
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## Famous Director Search Engine | *Python, Elasticsearch, Flask, BeautifulSoup*

January 2021

- Developed a bilingual search engine for top directors using Elasticsearch, leveraging web scraping and data translation for comprehensive indexing and querying.
-  famous-director-search-engine

## Certifications

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### Natural Language Processing Specialization - DeepLearning.AI

- Completed three courses in the Natural Language Processing Specialization: Classification and Vector Spaces, Probabilistic Models, and Sequence Models, covering techniques such as logistic regression, naïve Bayes, hidden Markov models, RNNs, LSTMs, and GRUs for tasks like sentiment analysis, autocorrect, autocomplete, text generation, and named entity recognition, with one course remaining to complete the specialization.

### AWS Fundamentals Specialization

- Completed part of the AWS Fundamentals Specialization courses in Cloud Technical Essentials and Migrating to AWS Cloud, gaining knowledge of AWS services including EC2, S3, Lambda, ECS, RDS, and DynamoDB, along with AWS security measures, and IAM with practical labs and exercises.

### Blockchain Specialization

- Completed part of the Blockchain Specialization courses, including Blockchain Basics, focusing on foundational blockchain concepts, and Smart Contracts, covering design, coding, deployment, and execution of smart contracts.

### IBM Full Stack Software Developer Professional Certificate - Following

- Completed courses in HTML, CSS, JavaScript, React, Node, Express, Python, Flask and Django as part of the IBM Full Stack Developer program, including hands-on labs and projects.

## Achievements

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### Real Hack 2.0 (2019)

*2nd runner up*

- Hackathon with pre-selection round with coding competition and 24 hours of hackathon challenge organized by Software Engineering Students' Association

## Referees

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### Prof. Gihan Dias

*Senior Lecturer, Department of Computer Science and Engineering, University of Moratuwa.*

- Email: gihan@cse.mrt.ac.lk

### N. Piranavaruban

*Tech Lead, 4Axis Solutions (Pvt) Ltd*

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