Kavindu Janith

📞 +94 77 050 6463

@ kavinduj.20@cse.mrt.ac.lk

github.com/KMjanith

linkedin.com/in/kavindu-janith-a76bb1291

medium.com/@kavinduj.20

portfolio

About Me

I am a passionate Software Engineering undergraduate with hands-on experience in microservices, distributed systems, and full-stack web and mobile app development. With strong problem-solving skills, a keen interest in DevOps practices, and proficiency in technologies like Kubernetes, Docker, and Flutter, I thrive in dynamic and collaborative environments.

Skills

- **Programming Languages**: Python | Java | Go | Dart | Scala | SQL | HTML | CSS

- **Databases**: MySQL | MongoDB | Cassandra | PostgreSQL | Firebase

- **Frameworks & Libraries**: Flutter | Scala Slick | React | Spring Boot | Tailwind CSS

- **Tools & Services**: Kubernetes | Docker | GCP | Azure | GoCD | Git | IntelliJ IDEA | VS Code | Canva | Adobe Illustrator | Jira

- **Technical Fields**: Distributed Systems | DevOps | Linux | Full Stack Development | Mobile App Development | Microservices

Education

BSc Eng Hons, Computer Science & Engineering
University of Moratuwa   2021 - present
MainStream | CGPA 3.60

School - Nalanda Collage | Colombo 10   2010 - 2019
- G.C.E A/L 2019: 3A Passes (Physical Science Stream)
- G.C.E O/L 2016: 9A Passes

Certifications

- Application Development using Microservices and Serverless - Coursera (cert)
- YouTube Labs - Kubernetes Crash Course - Kodekloud (cert)
- Microsoft Learn (cert)

Experience

Pagero Lanka (PVT) LTD | Colombo 03   2023 Dec - 2024 June
Software Engineering Intern

- Completed 7+ high-priority tasks in an agile software development environment focused on microservices.
- Implemented an error indication email sending feature on one of the services for tracking errors in production via emails.
- Deployed the new features to different environments (testing, staging, production) with proper monitoring and testing.
- Added new pipelines in CICD for new QA automation tasks.
- Wrote and tested unit test cases and integration test cases for new features.
- Attended daily scrum meetings and standups and maintained good collaboration with the team to make the sprints more productive.
- **Teck Stack :** *Scala, Java, cassandra, PostgresSQL, docker, Linux, GitHub actions, GoCD , RabbitMQ, IntelliJ IDEA,*

Associated Newspapers of Ceylon Limited (lakehouse) | Colombo 10   2020 Jan - 2021 June
Office assitant (technical)

- Troubleshooted network failures, Adobe software installations, windows 7,10 installation, troubleshooting and setup for working environment, electronic equipment checking and installing.
- **Tech Stack : windows 7, windows 10, VLAN setup**

Projects

GPU Resource Pooling - Team (FYP) (Ongoing)   2024 Jun - Present

- Designing a system for pooling idle GPUs to enable machine learning tasks. Users can deploy the machine learning tasks or interactively code using the front end by renting available GPUs registered to the system.
- I am implementing master server microservices and creating a program to manage them centrally in both the testing and production environments, minimizing the effort of starting, stopping, and managing environment variables.
- **Tech Stack :** *Go, Kubernetes, RabbitMQ, MongoDB, Docker*

⊕ Highlights

- **Code Serge November, by Pagero** : Winner
- **Organizing Comitee member:** 2024 carriers fair
- **Company cordination team**: 2024 Hit the Grounds

⊕ Blog Posts

- Monolithic vs. Microservices: A Comparison from an Engineering Perspective. (portfolio > Blog)
- Understanding Types of Programming Languages: A Quick Guide. (portfolio > blog)
- Understanding the Linux Boot Process: BIOS vs. UEFI
- Manage Miroservices centrally using Docker-compose in both Windows and Linux.

⊕ Interests

- **Freelancing :** Shutterstock
- **Youtube channel :** Fixmath.A
- Conducting math classes.
- Music

⊕ Sports

- **Karate** - National Team representation | 2017 - 2018
  - School Captain - 2017
  - Rise in sun - School awards
  - School colors - 2016 | 2017 | 2018
- **Swimming**

⊕ References

- **Prof. Dulani Meedeniya**
Department of Computer Science and Engineering,
Faculty of Engineering,
University of Moratuwa.
dulanim@cse.mrt.ac.lk

Sports Management App - Individual (Ongoing)
2024 Jun -Present

- Created a centralized sport data management system for coaches.
- The first phase has been completed for Karate, including creating and managing new competitions, scoreboard, student galleries, draw making and grading management.
- (Github)
- **Tech Stack :** *Flutter, Dart, Firebase, cubit*

Web Scraper - individual
2024 December

- Designed and implemented custom scraping scripts in Python to scrape data and code snippets in both React documentation and AWS documentation, which are having dynamic and static web pages.
- Created a creative JSON schema to structure the scraped data for seamless downstream processing.
- Won the first price for this in the Pagero Code Serge November quest.
- (Github)
- **Teck Stack :** *Python, Playwright, React, AWS*

Portfolio - individual
2024 December - present

- I designed a portfolio website for myself, adding my journey till now, and it is continuously updating, including sections for my blog posts, achievements, and projects to showcase my passion to the outside world.
- Still, it has only a front end, and in the future, a backend will be integrated for more performances.
- (Github)
- **Tech Stack** : *React, Vite, Tailwind css, framer motion, Versel for deployment*

Service-runner - individual
2025 January

- This project is for one of my blog posts to showcase a simple centralized program to manage and run microservices in both the development and production environments.
- (Github)
- **Tech Stack:** *Go, Docker, RabbitMQ, Shell scripting, Bat scripting, React, HTTP, gRPC, protobuf, mongoDB*

Train Booking System - Team
2023 June - 2023 Dec

- Developed a train booking system with the functions to select dates, sheets, and classes. Developed both web application and mobile application.
- I developed the entire mobile application using Flutter and dart, implemented a way to calculate the price for each station from the booking station and implemented some back-end functions.
- (Github) , (App manual)
- Download for android (here)
- **Tech Stack:** Flutter , Dart, MongoDB, VScode, Nodejs