

# KAVINDU NILSHAN

## FULL STACK DEVELOPER



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🌐 [kavindunilshan.github.io/portfolio-website/](https://kavindunilshan.github.io/portfolio-website/)  
📖 [kavindunilshanliyanage.medium.com/](https://kavindunilshanliyanage.medium.com/)  
📖 [stackoverflow.com/users/14016638](https://stackoverflow.com/users/14016638)

## SKILLS

- **Programming Languages:** Java | JavaScript | TypeScript | Python | C++ | Dart
- **Databases:** MySQL | PostgreSQL | MongoDB | SQLite | Firestore
- **Tools & Services:** AWS | Git | JBoss EAP | Docker | Kubernetes | Grafana | Okta Auth0 | WSO2 Asgardeo | Firebase | Linux | Jira
- **Frameworks:** Spring Boot | React | Angular | J2EE | Nodejs | Flutter | React Native
- **Technical Fields:** Full Stack Development | Backend Development | Microservices



## PROFILE

Adaptable individual with a strong ability to quickly learn new concepts and solve complex problems. Passionate about full-stack development and, committed to continuous skill development and delivering impactful results in diverse environments.



## EDUCATION

**BSc. Eng(Hons), Computer Science & Engineering** 2021 - Present  
University of Moratuwa

**CGPA:** 3.77 / 4.0

**Dean's List:** Semester 1 (4.0 SGPA), Semester 3, Semester 4, and Semester 7

**Rahula College Matara** 2011 - 2019

G.C.E A/L 2019: 3 A Passes (Physical Science Stream), Z Score - 2.4106

G.C.E O/L 2016: 9 A Passes



## EXPERIENCE

**GTN Tech** Nov 2023 - May 2024  
Software Engineering Intern

- Contributed to DWM Status Monitor, a full-stack application for tracking application instances, managing configurations, and triggering events using Apache ZooKeeper.
- Enhanced backend modularity by implementing Java 9 modules and integrated open-source observability tool Grafana to reduce reliance on Datadog and minimize costs.

**Tech Stack:** Spring Boot | Angular | J2EE | EDB | JBoss EAP | AWS EC2 | AWS S3 | Docker | Grafana | Apache Zookeeper

**Open Source Contributions** May 2024 - Present  
Contributed to Grafana

- Actively contribute patches for issues in the [Grafana](#) repository. Some key PRs:
- Fixed cursor flickering and resolved console errors in the Data Links section. ([PR #90465](#))
- Enhanced log readability by making multi-line logs collapsible and expandable. ([PR #87368](#))

**Tech Stack:** React | Linux | Docker | Grafana

## CERTIFICATIONS

- AWS Cloud Practitioner  
Essentials: AWS (cert)
- Machine Learning with Python:  
IBM (cert)

## COMPETITIONS

- IET Hack organized by IIT 2021:  
Second place
- Code Squad 2022 by University  
of Sri Jayawardenepura: Finalist
- IEEE Extreme 2021: (cert) (global  
rank = 402)
- IEEE Extreme 2022: (cert)
- Google Code Jam 2022:  
Advanced to round 2

## EXTRAS


- Junior Web Editor and Operation  
pillar member of IESL Students  
Chapter University of Moratuwa  
(2022-2023)
- Member of Rahula College Scout  
Troop (2012-2015)

## REFERENCES

Prof. Indika Perera  
Dept. of Computer Science &  
Engineering  
Faculty of Engineering  
University of Moratuwa,  
Moratuwa 10400, Sri Lanka.  
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## PROJECTS

<b>EpidemiX</b> (Group Project)	July 2024 - Present
Final Year Project: Ongoing	
<ul style="list-style-type: none"><li>Topic: A Multivariate Approach for Dengue Outbreak Prediction.</li><li>This project uses machine learning to predict dengue outbreaks by analyzing weather data such as rainfall, temperature, and humidity, along with vegetation index, geographical data, and population. The approach includes creating an ensemble model to improve prediction accuracy by combining multiple algorithms.</li><li><a href="#">Github</a></li></ul>	
<b>SpendWise</b>  (Individual Project)	June 2024 - Dec 2024
Personal Expense Tracker	
<ul style="list-style-type: none"><li>SpendWise is a personal expense tracker that helps users manage finances, set goals, track progress, and access financial education and paid advice via Stripe. The application incorporates secure login using Okta Auth0, backend APIs, and RBAC for user management. Additionally, error boundaries were implemented to enhance the application's reliability by handling runtime errors.</li><li><a href="#">Website</a>   <a href="#">Frontend</a>   <a href="#">Backend</a></li></ul>	
<b>Tech Stack:</b> Vite   React   Spring Boot   PostgreSQL   Okta Auth0 (RBAC)   Docker   Kubernetes   Stripe   WSO2 Choreo   Heroku	
<b>WatchMovie</b> (Individual Project)	Aug 2023 - Nov 2024
Theater Booking System	
<ul style="list-style-type: none"><li>WatchMovie is a theater booking system for browsing movies, booking tickets, receiving them via email, and secure authentication through WSO2 Asgardeo, with an admin portal for management.</li><li><a href="#">Frontend</a>   <a href="#">Backend</a></li></ul>	
<b>Tech Stack:</b> React   Spring Boot   MySQL   WSO2 Asgardeo   Docker   Strategy (design pattern)   MVC Architecture	
<b>InvexPro</b> (Individual Project)	July 2024 - Oct 2024
Inventory Management System	
<ul style="list-style-type: none"><li>InvexPro is an inventory management system that helps track stock and provides data visualization with charts to make better decisions.</li><li><a href="#">Frontend</a>   <a href="#">Backend</a></li></ul>	
<b>Tech Stack:</b> Angular   Nodejs   MongoDB   Chart.js   Okta Auth0	
<b>Journey Sync</b> (Group Project)	Aug 2023 - Nov 2023
Tour Planner Application	
<ul style="list-style-type: none"><li>A web and mobile application designed to simplify trip planning and organization. Features include destination suggestions, hotel booking, room selection and vehicle bookings.</li><li><a href="#">Frontend</a>   <a href="#">Backend</a></li></ul>	
<b>Tech Stack:</b> React.js   Node.js   Express.js   Flutter   MongoDB   Booking.com API   Microservice Architecture	
<b>CosmicWays</b> (Group Project)	Aug 2023 - Oct 2023
Travel Reservation Application	
<ul style="list-style-type: none"><li>CosmicWays is an interplanetary travel reservation mobile application developed by a team of students at CSE, University of Moratuwa, for a competition organized by RootCode. My role focused on frontend development.</li><li><a href="#">Github</a></li></ul>	
<b>Tech Stack:</b> React native   Firebase	