


Nethmin Dulsara Abeysekara

Passionate: Full-stack Software Engineer

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About

I'm a goal-driven individual who currently seeks employment as a Software Engineer, Fullstack Engineer or Cloud Engineer to serve the institution to the best of my abilities & improve my skills further as a passionate problem solver

Skills

- Full Stack | Java | Springboot | NodeJS | NestJS | ExpressJS | React | NextJS | Redux
- Java | Python | NodeJs | MySQL | MongoDB | PostgreSQL | MariaDB | Redis | Git | OOP | REST API | GraphQL | Jenkins | Ansible | Terraform
- RabbitMQ | AWS SQS | Docker | AWS | Serverless | CI/CD | Lambda | Cloud Functions | Linux | Ubuntu | VPS deployment
- IAM | Keycloak | MS Active Directory | Microservices | Distributed Systems | Frontend | Backend | DevOps

Experiences

Software Engineer - BE & DevOps [Sphiria Digital Studio](#) Sri Lanka **08/2024 - Present**

- Designed/implemented an end-to-end secure payment gateway using Stripe that handled over \$2K in weekly transactions.
- Designed/implemented a centralized IAM provider solution using Keycloak and RabbitMQ that handled around 300 monthly users.
- Mentored two intern developers, which enhanced the team's technical capabilities and reduced onboarding time by 50%
- Optimized system performance around 30% by refactoring database queries, cache-rules and code base.

Full Stack Developer [Sen Transport](#) Australia **07/2023 - 08/2024**

- Implemented customer support and domain based chat application features using GraphQL and AWS solutions.
- Implemented payment and order tracking features in an online marketplace application.
- Resolved critical bugs, achieving 99% system uptime and ensuring continuous business operations

Software Engineer Intern [Orange HRM](#) Sri Lanka **12/2022 - 06/2023**

- Contributed to open-source HRM project using PHP frameworks and Vue.js.

Professional Certificates

AWS Certified Solutions Architect – Associate (SA-003 exam) [Verify](#) **12/2024**

- Earned AWS Certified Solutions Architect – Associate certification to strengthen cloud architecture skills and enhance career prospects in cloud engineering.

Education

BSc (Hons) in Information Technology [University of Moratuwa](#) **01/2020 - 08/2024**

- Graduated with a BSc (Hons) in Information Technology (**Second Class Upper**) from the University of Moratuwa, specializing in Software Engineering, Distributed Computing, Database Systems, Cloud Computing, and Machine Learning.

Publications

SingRAG: A Translation-Augmented Framework for Code-Mixed Singlish Processing [See Paper](#)

- Contributed as a researcher to build a highly efficient and cost optimized LLM/SLM training framework for Code-Mixed languages like Singlish.
- Published the paper at [9th International Conference on Information Technology Research \(ICITR\)](#) in 2024

Projects

TheVinGame Project [Visit](#)

- Contributed to design and developments of the backend and CD workflow of the application.
- Implemented orders and Products features of the application.
- Role: Backend Engineer & DevOps**
- Nest JS, Next.js, AWS, Docker, Linux, GitHub Actions, Google Cloud Platform, MongoDB, TypeScript

Wolvista Project [Visit](#)

- Contributed to implement Stripe payment gateway integration and notification system.
- Designed/developed fully functioning CI/CD workflow for the system using Git and Jenkins.
- Role: Backend Engineer & DevOps**
- NestJS, ReactJS, AWS, Docker, GitHub Actions, Jest, TypeScript, mongodb

Allocator Project [Visit Demo](#)

- Contributed to development of real-time chat feature and authentication feature of a bidding application.
- Role: Full-Stack Engineer**
- Next JS, ExpressJS, GCP, Docker, Keycloak, MySQL, DynamoDB, Apollo Server (09/2023)

Orange HRM Open Source Project

- Implemented and tested fully functioning claim feature of the application.
- ReactJS, .Net Framework, S3, CloudFront, ALB, ASG, GitHub actions, TypeScript

GuardHawk Project

[Visit](#)

- Guard Hawk is a crypto-based investment platform that focuses on data consent systems and marketplace solutions.
- ReactJS, .Net Framework, S3, CloudFront, ALB, ASG, GitHub actions, TypeScript

Personal Projects

@iamnd/nest-rmq

[See Package](#) [View In GitHub](#)

- Developed and published a NPM package to further accelerate the developments of microservices / distributed systems using NestJS & RabbitMQ.

Hackathon Awards

- **Gold Award:** CodeFest 2023- Under the Tertiary Category of Datathon, did data pre-processing & exploratory data analysis to gain customer insights from a weather dataset. Built an ML model using PyTorch, deployed and exposed on DigitalOcean using Fast API **(01/2024)**
- **Gold Award:** CodeFest 2022- Under the Tertiary Category of Hackathon, developed an election management system in under 24 hours on-site, using Node.js and React.js. To establish integrity of voters, developed a private-public key pair mechanism. Developed a QR code generation feature to easily share the public key to potential voters via email **(01/2023)**
- **Gold Award:** CodeFest 2021- Tertiary Category- Hackathon **(01/2022)**
- **2nd runner up:**Codefest 2023 DevQuest (Bug Fixing competition) **(01/2024)**
- **Top 10 finalist:** SLTC Hacktrone Game Development Competition 2021
- **Top 10 finalist:** TadHack Sri Lanka competition organized by hSenid Mobile 2022

EXTRA-CURRICULAR ACTIVITIES

- **Member of the web development team (2021-2022)**
IEEE Computer Society, University of Moratuwa
- **DSATutor:** Taught Data Structures & Algorithms to a some under-privileged students via zoom for their university exams as a volunteering effort (04/2021)

References

Dr. Chaman Wijesiriwardana (Ph.D, MSc,
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