HANSAKA RATHNAYAKE

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SUMMARY

Motivated Information Technology undergraduate with professional experience as an Associate Software Engineer, with strong foundation in Full-Stack Web Development. Currently maintaining a 3.5 GPA while actively expanding expertise in Machine Learning, Deep Learning, and Generative AI technologies. Proven track record in modern web frameworks, cloud technologies and DevOps practices, with hands-on experience delivering enterprise-level applications. Skilled in critical thinking, problem-solving, and cross-functional collaboration, with a passion for creating innovative and impactful solutions that bridge traditional web development with cutting-edge AI technologies.

WORK EXPERIENCE

Associate Software Engineer, Seekers Cloud   **February 2025 – Present**
- Develop and maintain scalable web applications using React, Node.js, Spring Boot, and Angular, ensuring 99% uptime and optimal performance
- Design and implement RESTful APIs with Express.js, integrating with PostgreSQL and MongoDB databases
- Architect micro-frontend solutions that improved application modularity by 40% and reduced deployment time
- Leverage AWS S3 for secure file storage and SendGrid for automated email notifications, enhancing user engagement by 25%
- Build and maintain CI/CD pipelines using GitHub Actions, reducing deployment time

Software Engineering Trainee, Seekers Cloud   **August 2024 – February 2025**
- Completed comprehensive training in full-stack development and modern software engineering practices
- Gained hands-on experience with enterprise-level applications and cloud technologies
- Collaborated on multiple projects using Agile methodologies and version control systems

Teaching Demonstrator, Earth University College   **2023 – 2024**
- Delivered lectures and practical sessions on Object-Oriented Analysis & Design and Database Management Systems
- Mentored students in software development projects using Java and MySQL
- Created comprehensive course materials and assessments, improving student learning outcomes by 20%

EDUCATION

Bachelor of Information Technology (B.IT.)   **2022 – Present**
University of Colombo School of Computing
- Software Engineering, Database Systems, Web Development, Cloud Computing, DevOps Fundamentals.
- Current GPA : 3.5/4.0

Higer Diploma in Information Technology   **2024**
University of Colombo School of Computing

Diploma in Information Technology   **2023**
University of Colombo School of Computing

Foundation in Information Technology   **2022**
University of Colombo School of Computing

Advanced Level (Physical Stream)   **2021 – 2022**
Central College Anuradhapura

SKILLS

- ***Programming Languages:*** JavaScript, TypeScript, Python, Java
- ***Frontend Technologies:*** React, Angular, Next.js, HTML5, CSS3
- ***Backend Technologies:*** Node.js, Express.js, Spring Boot, FastAPI, Flask
- ***Cloud & DevOps:*** AWS (S3, EC2, DynamoDB), Docker, GitHub Actions, Linux, CI/CD Pipelines, GitHub
- ***AI/ML Technologies:*** Machine Learning, Deep Learning, Generative AI, Agentic AI (Learning), Python Libraries (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch - Beginner Level)

CERTIFICATIONS

- AWS SimuLearn: Computing Solutions
- AWS SimuLearn: First NoSQL Database
- AWS SimuLearn: Cloud First Steps
- AWS Cloud Computing Essentials
- KodeKloud Engineer - Docker Level 1

KEY PROJECTS

Hospital Management SaaS Platform *2025 - client project*
Technologies: React, Angular, Node.js, MongoDB, JWT, AWS S3, SendGrid, PM2, Hostinger VPS, GitHub Actions

- Multi-tenant SaaS platform with 6 micro-frontend applications (Doctor, FrontDesk, Pharmacy, Admin, Patient, Auth) and NodeJs API
- Developed secure role-based authentication system using JWT, supporting multiple user types
- Integrated AWS S3 for document storage and SendGrid for automated billing notifications
- Implemented automated subscription monitoring with cron jobs, reducing manual oversight by 80%
- Established CI/CD pipelines for automated testing and deployment across all services

E-commerce Platform *2025*
Technologies: MongoDB, Express.js, Next.js, Node.js, JWT

- Built scalable e-commerce platform with secure user authentication and comprehensive product management
- Optimized API endpoints reducing product search latency by 45% and checkout process time by 30%
- Designed responsive UI using Next.js with MongoDB integration for efficient data management
- Implemented comprehensive order tracking and user history features

Learning Management System *2025 - client project*
Technologies: Angular, Spring Boot, MySQL, AWS S3, SendGrid, JWT

- Developed comprehensive LMS with dual client applications (Student & Admin interfaces)
- Built robust Spring Boot API with MySQL integration for educational resource management
- Implemented secure AWS S3 storage for course materials and automated notifications via SendGrid
- Optimized database queries improving system performance by 35% for concurrent users

Predictive Analytics Dashboard *2025 - ML project*
Technologies: React with Tailwind CSS, python, Flask , SQLite, Chart.js
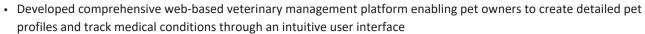*ML: scikit-learn (Linear Regression, Random Forest), Pandas, NumPy, jolib, R2 and RMSE evaluation metrics*

- Build a web-based dashboard where users can input house features (e.g., size, bedrooms, location) to predict house prices, visualize predictions, and explore feature importance.

Veterinary-Clinic-Management *2025 - client project*
Technologies: React, Angular, Node.js, MongoDB, JWT, AWS S3
Client App: https://ashanlanka-dev.github.io/system-client/
Admin App: https://vetcareadmindashboard.web.app/

- Developed comprehensive web-based veterinary management platform enabling pet owners to create detailed pet profiles and track medical conditions through an intuitive user interface
- Built robust admin application with appointment queue management system and centralized medical records database for vaccination tracking and health report management
- Implemented secure online consultation feature with real-time communication capabilities, improving accessibility to veterinary services
- Designed role-based authentication system using JWT to ensure secure access control between pet owners, veterinarians, and administrative staff
- Integrated AWS S3 for secure storage of medical documents, vaccination certificates, and pet images with optimized retrieval performance

KodeKloud 100-Day DevOps Project - Ongoing (2025)

REFERENCES

Mr.Ashen Manilka
Senior Software Engineer - Seekers Cloud
Email: info.ashen9593@gmail.com

Mr.Dimuthu Suranga
CEO - Earth University College
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