

# Oshan Sandeep Amarasooriya

Software Engineer

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github.com/oshanAmarasuriya | oshanamarasuriya.github.io/github-portfolio

## SUMMARY

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Software Engineer with a BSc (Hons) in Computer Science & Engineering from the University of Moratuwa. Experience in backend development, system automation, and research-driven product development. Interested in scalable systems and applied AI.

## EXPERIENCE

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### Software Engineer (R&D)

Jul 2025 – Present

*CodeGen International (Pvt) Ltd*

*Sri Lanka*

- Design and implement AI agents, MCP-based tools, and agent-driven workflow automations for production systems.
- Develop and deploy agent-based AI systems using containerized microservices on Kubernetes.
- Conduct applied research and translate findings into production-ready AI features and products.
- Build, maintain, and optimize AI chat systems, including multi-channel platforms and social-media-based chatbots.
- Implement new features based on client requirements, from solution design through deployment.
- Collaborate directly with clients for requirement gathering, solution discussions, and knowledge-transfer (KT) sessions.
- Troubleshoot and resolve issues across AI pipelines, deployments, and runtime environments.
- Work closely with cross-functional teams to ensure scalability, reliability, and maintainability of AI products.
- Leverage AI-powered productivity tools to accelerate debugging, streamline boilerplate code generation, and improve overall development efficiency.

### Trainee Software Engineer

Dec 2023 – June 2024

*CodeGen International (Pvt) Ltd*

*Sri Lanka*

- Design and development of PDF document based question answering system.
- Development of a web application for hotel room allocation based of guests' requirements

## EDUCATION

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### University of Moratuwa

Sri Lanka

*BSc (Hons) Engineering — Computer Science & Engineering*

*2021 – 2025*

## PROJECTS

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### Privacy-Preserving Medical Advising System on Mobile Devices

2024 – 2025

*Final Year / Research Project*

- Designed an on-device PHI de-identification pipeline using **MobileBERT**.
- Built a privacy-preserving Retrieval-Augmented Generation (RAG) system for medical QA.
- Integrated a small language model (**SmolLM2**) into the mobile application to provide emergency offline assistance.

## TECHNICAL SKILLS

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**Languages:** Python, Java, Kotlin, C/C++

**Databases:** SQL, MongoDB

**Frameworks/ Libraries:** FastAPI, Langraph, Spring Boot

**Tools/ platforms:** n8n, Kubernetes, Android Studio

**AI Productivity Tools:** Claude Code, Cursor AI

## PUBLICATIONS

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Privacy-Preserving Medical Advising System on Mobile Devices, published in CHASE '25: Proceedings of the ACM/IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies, ACM Digital Library, DOI: 10.1145/3721201.3725431