

# Oshan Sandeep Amarasooriya

Software Engineer

oshansandeep630@gmail.com | +94 76 406 6786 | linkedin.com/in/oshan-amarasooriya-219971243

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

## SUMMARY

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

<b>Software Engineer (R&amp;D)</b> <i>CodeGen International (Pvt) Ltd</i>	Jul 2025 – Present Sri Lanka
<ul style="list-style-type: none"><li>– Design and implement AI agents, MCP-based tools, and agent-driven workflow automations for production systems.</li><li>– Develop and deploy agent-based AI systems using containerized microservices on Kubernetes.</li><li>– Conduct applied research and translate findings into production-ready AI features and products.</li><li>– Build, maintain, and optimize AI chat systems, including multi-channel platforms and social-media-based chatbots.</li><li>– Implement new features based on client requirements, from solution design through deployment.</li><li>– Collaborate directly with clients for requirement gathering, solution discussions, and knowledge-transfer (KT) sessions.</li><li>– Troubleshoot and resolve issues across AI pipelines, deployments, and runtime environments.</li><li>– Work closely with cross-functional teams to ensure scalability, reliability, and maintainability of AI products.</li><li>– Leverage AI-powered productivity tools to accelerate debugging, streamline boilerplate code generation, and improve overall development efficiency.</li></ul>	
<b>Trainee Software Engineer</b> <i>CodeGen International (Pvt) Ltd</i>	Dec 2023 – June 2024 Sri Lanka
<ul style="list-style-type: none"><li>– Design and development of PDF document based question answering system.</li><li>– Development of a web application for hotel room allocation based of guests' requirements</li></ul>	

## EDUCATION

<b>University of Moratuwa</b> <i>BSc (Hons) Engineering — Computer Science &amp; Engineering</i>	Sri Lanka 2021 – 2025
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## PROJECTS

<b>Privacy-Preserving Medical Advising System on Mobile Devices</b> <i>Final Year / Research Project</i>	2024 – 2025
<ul style="list-style-type: none"><li>– Designed an on-device PHI de-identification pipeline using <b>MobileBERT</b>.</li><li>– Built a privacy-preserving Retrieval-Augmented Generation (RAG) system for medical QA.</li><li>– Integrated a small language model (<b>SmolLM2</b>) into the mobile application to provide emergency offline assistance.</li></ul>	

## TECHNICAL SKILLS

**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

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