

Akila Wasalathilaka

Software Engineer — Building AI-Powered Products

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PROFESSIONAL SUMMARY

Final-Year Computer Science undergraduate with 1.4+ years of professional software engineering experience at Arimac Lanka, progressing from Software Engineering Intern to Associate Software Engineer. Experienced in developing and delivering enterprise web applications for local and international clients, with expertise in full-stack development, mobile applications, cloud technologies, and AI-powered solutions. Passionate about building scalable products, solving complex technical challenges, and creating impactful software that delivers real business value.

EDUCATION

BSc (Hons) in Computer Science **2023 – Present (4th Year)**
Coventry University (via NIBM, Sri Lanka)
Key Modules: Data Structures, Algorithms, OOP, Database Systems, Software Engineering, Web Development, Machine Learning

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, JavaScript, TypeScript, SQL
Frontend: Next.js, Vue.js, Nuxt.js, React, Tailwind CSS
Backend: Node.js, Express.js, REST APIs
Databases: MySQL, PostgreSQL, MongoDB, Firebase Firestore
Tools: AWS, Docker, Git, GitHub, Jira, VS Code
Core Focus: OOP, Data Structures & Algorithms, SDLC, Agile/Scrum, Design Patterns

PROFESSIONAL EXPERIENCE

Associate Software Engineer **Jan 2026 – Apr 2026**
Arimac Lanka, Colombo, Sri Lanka

- Developed responsive frontend applications and integrated REST APIs across enterprise web platforms.
- Contributed to LB Finance Annual Report Platform, MEGT Australia, Al Ain Museum, Siddhify, and Castle Group Australia projects.
- Collaborated with designers, QA engineers and backend teams across 5 enterprise projects.
- Maintained code quality through Git workflows, peer reviews, and development best practices.

Software Engineering Intern **Apr 2025 – Jan 2026**
Arimac Lanka, Colombo, Sri Lanka

- Assisted in the development and maintenance of modern web applications.
- Implemented frontend features and integrated backend APIs.
- Participated in Agile ceremonies including sprint planning, daily standups, and sprint reviews.
- Worked closely with senior engineers to improve application performance and code quality.

SELECTED TECHNICAL PROJECTS

Advanced Slum Detection using Deep Learning **2025**

- Developed a semantic segmentation model using UNet with ResNet34 encoder, Achieved high predictive performance on satellite imagery datasets.
- Implemented BCE, Dice Loss, and Focal Loss for class imbalance handling and model optimization.
- Built automated evaluation and visualization pipelines for model performance analysis.
- Tech:* Python, PyTorch, OpenCV, Scikit-learn

Meduza - Open Source Android Music Player **2026**

- Built an open-source Android music streaming application powered by YouTube Music, designed as a free alternative to Spotify.

- Developed the MEDUZA Intelligence Engine featuring taste affinity scoring, energy-based queue generation, diversity windows, and recency-aware recommendations.
- Implemented gapless playback, infinite intelligent radio queues, local audio support, and dynamic theme customization using ExoPlayer Media3.
- Designed a modular architecture with MVVM, repository pattern, and scalable playback services for maintainability and performance.
- *Tech:* Kotlin, Jetpack Compose, Android Media3, ExoPlayer, YouTube Music Inntertube API, MVVM

CERTIFICATIONS

Google Cloud: Generative AI, Prompt Design, Responsible AI

Microsoft: Custom Engine Agents (May 2025)

IBM: Introduction to UX Design (June 2025)

LANGUAGES & SOFT SKILLS

Languages: English (Excellent), Sinhala (Native)

Soft Skills: Teamwork, Communication, Time Management, Quick Learning, Adaptability

REFERENCES

Mr. Thusitha Karavita

Architect - UI/UX Engineering

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