

Tharini Senanayaka

Software Engineer

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Professional Summary

Software Engineer with 2.5 years of experience building production-grade full-stack applications using solid OOP and SOLID design principles, clean data structures & algorithms, and well-tested code. Backend experience includes Node.js, Python and Java/Spring Boot for building RESTful APIs and microservices, and relational and NoSQL databases (MySQL, MongoDB, PostgreSQL). Frontend experience includes React, Next.js, and TypeScript, with a focus on state management and asynchronous data handling. Experienced with Git, CI/CD (GitHub Actions), Docker, Linux server administration, and AWS deployments. Follows Test-Driven Development and Agile/Scrum practices, and uses AI coding assistants (Claude Code, GitHub Copilot) responsibly for code generation, debugging, and refactoring, always validating output before committing. Works well independently and in cross-functional teams, and picks up new tools quickly.

Key Skills

- **Software Design & Fundamentals:** OOP & SOLID Principles, Design Patterns, Data Structures & Algorithms, Secure Coding Fundamentals
- **Programming:** Java, JavaScript, Python, C++
- **Frontend Development:** React, Next.js, Gatsby, Redux, TypeScript, Material-UI, Framer Motion, Tailwind CSS, Responsive Design, Cross-browser Compatibility, REST API Integration
- **Backend & APIs:** Java, Spring Boot, Node.js, Express, Python, RESTful APIs, Flask APIs, Microservices, Webhooks
- **Databases:** MySQL, MongoDB, PostgreSQL, ChromaDB, Redis
- **Cloud & DevOps:** AWS (ECS, Lambda, S3, RDS, CloudWatch), Git, GitHub, CI/CD (GitHub Actions), Linux Server, NGINX Management, Docker, Shell Scripting, Monorepo Architecture
- **Testing & Quality:** Unit Testing, Debugging, Code Review, Root Cause Analysis, TDD
- **AI & Automation:** AI Coding Assistants (Claude Code, GitHub Copilot), LLM Integration, RAG Systems, Vector Search, LangChain, AI Workflows, Multi-Agent Systems (CrewAI), Embeddings, Prompt Engineering
- **Mobile Development:** iOS (Swift), Android (Kotlin)
- **Agile & Tools:** Scrum/Agile Ceremonies, Sprint Planning & Estimation, Jira, Confluence, CMS (Strapi, Ghost, Shopify)

Education

Bachelor of Science in Computer Science
Eastern University, Sri Lanka (2020-2024)
Graduated:

- First Class Degree
- GPA: 3.83 / 4.00

Experience

Associate Software Engineer (10/2024 - Present)

Knivok LLC (DBA Knovik)

- Applied OOP and SOLID design principles across full-stack projects to keep code modular, testable, and easy to extend as requirements evolved

- Currently developing an iOS application to CarPlay integration
- Contributed to Android app development related to Android Auto
- Developed an agentic AI-based multi-agent system for digital marketing automation, enabling coordinated workflows for content generation, analysis, and task execution.
- Developed web platforms for showcasing and selling integrated software and hardware solutions, implementing responsive component views optimized for web, mobile, and different device environments.
- Implemented CI/CD pipelines to automate application deployment
- Configured NGINX as a reverse proxy for a production website on Linux servers, handling request routing to backend services
- Implemented customer journey tracking and analytics to monitor user interactions and analyze conversion paths, using monitoring tools to track application health and conduct root-cause analysis on production issues.
- Collaborated with cross-functional teams in a Scrum Agile environment, participating in sprint planning, reviews, and code reviews.
- Contributed to e-commerce and CMS integration projects, enhancing user journey tracking from blog platforms to online stores.
- Developed shell-based automation scripts to enable one-command installation and configuration, reducing manual setup effort.
- Built AI-driven content generation and publishing automation for marketing workflows.
- Designed and implemented customer support automation using intelligent chatbots to handle FAQs, order updates, and refunds.
- Developed messaging-platform chatbots to provide instant product and pricing information for sales support.
- Contributed to a large-scale enterprise system with 13+ integrated modules. Developed an application with voice input and text-to-speech features.
- Developed and optimized a production web application with responsive layouts and animation performance improvements.
- Developing a data integration dashboard aggregating multi-source project and employee data for analytics and insights.
- Implemented automated web scraping pipelines to extract, clean, and structure business data for analysis.

Intern Software Engineer (04/2024 - 10/2024)

Knivok LLC (DBA Knovik)

- Developed a production-grade React-based booking platform with real-time availability, responsive UI, and REST API integrations. Worked within a Scrum Agile environment and contributed to a large monorepo codebase.
- Contributed to a teaching platform by developing and maintaining user interfaces for both student and teacher views.

Final Year Research:

Enhancing Multiple Ocular Diseases Detection Using Convolutional Neural Networks (CNN)

- Conducted a research project focused on detecting multiple ocular diseases using a custom optimized CNN model.

References

Jeewantha Wikramasinghe, *Project Development Lead*, Knivok LLC (DBA Knovik)
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Ms. K. Krishnaraj, *Lecturer*, Department of Computer Science,
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