

THEEKSHANA SANDARU

Senior Software Engineer · Backend & AI Systems

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PROFILE

Senior Software Engineer with 8+ years building scalable backend systems and AI-powered platforms across big tech, fintech, and high-growth startups. Currently leading agentic AI architecture at MyTelescope, shipping LLM-driven systems, multi-agent orchestration, and custom Model Context Protocol (MCP) servers. Deep specialization in Python, TypeScript, and Go, with proven impact on multi-million-dollar infrastructure programs at Meta and GIC. Open to senior and lead engineering roles across the EU.

CORE SKILLS

Languages: Python, TypeScript, JavaScript, Go, Rust, Hack (PHP-family)

Backend & APIs: Django, FastAPI, Litestar, Express.js, NestJS, Fiber, Echo, REST, GraphQL

AI / ML: LangChain, LLM integrations (Anthropic, OpenAI), RAG pipelines, MCP server design, multi-agent orchestration, vector search

Frontend: React, Redux, Next.js, Vue, Tailwind CSS

Data & Pipelines: PostgreSQL, MySQL, Apache Airflow, SFTP integrations, large-scale ETL

Cloud & DevOps: Google Cloud Platform, AWS, Docker, Kubernetes, GitHub Actions, CI/CD, Firebase

Practices: System design, API architecture, performance optimisation, code review, mentoring, technical interviewing

PROFESSIONAL EXPERIENCE

Lead Engineer · MyTelescope AB

Dec 2025 - Present

Stockholm, Sweden, AI-native brand & market intelligence platform

- Architect and ship agentic AI systems end-to-end, covering LLM integration, retrieval pipelines, and multi-agent orchestration that power the platform's core intelligence layer.
- Design and build custom MCP (Model Context Protocol) servers extending Claude and other AI assistants with MyTelescope's proprietary data and tools.
- Lead development of an agent orchestrator enabling rapid deployment and configuration of domain-specific AI agents for brand and market analysis.
- Build scalable backend services in Python and Node.js on Google Cloud Platform, with data pipelines turning large-scale behavioural signals into structured intelligence.
- Develop responsive React / TypeScript / Tailwind frontends that translate complex AI outputs into intuitive dashboards and decision tools.
- Integrate Google OAuth, Firebase, and third-party services to deliver secure, branded authentication across the platform.

Full Stack Engineer · Meta (via AVT)

Mar 2024 - Aug 2025

Singapore (remote engagement)

- Spearheaded migration of **5+ Petabytes** of data from Dropbox, OneDrive, and Microsoft systems to Google Drive, delivering **USD 1.4M** cost savings in 2024 and an additional **USD 1M** by August 2025.
- Designed, developed, and tested backend modules for large-scale document migration with strong performance, scalability, and reliability requirements.
- Optimised data processing and applied advanced reprocessing techniques to improve data quality, integrity, and resource efficiency.
- Partnered with Legal, Executive Support, Data Engineering, and Data Science teams to ensure compliance and smooth execution of migration activities.
- Built mass-communication tooling to keep Meta-wide teams informed of migration progress and milestones, and conducted technical interviews for senior engineering hires.

Full Stack Engineer · GIC Pte Ltd

Sept 2022 - Mar 2024

Singapore, Sovereign wealth fund, investment technology

- Designed and built data-visualisation and analytics dashboards tailored to investment criteria and user specifications.

- Architected backend infrastructure to improve scalability and resilience under diverse workloads.
- Built a **Retrieval-Augmented Generation (RAG) chatbot** over internal financial documents, giving employees fast access to trading and investment policies.
- Managed full software lifecycle: design, implementation, refactoring, testing, and deployment.
- Built secure SFTP integrations between GIC and partner banks (e.g. Bank of America) for automated data exchange, and automated workflows with Apache Airflow.
- Ran load testing and implemented API monitoring to improve system performance and responsiveness.

Software Engineer · iTelaSoft Pvt Ltd

Oct 2020 - Sept 2022

Nugegoda, Sri Lanka, Product engineering across food-tech, climate-tech, and telco

- Designed, developed, and deployed backend systems across multiple client products, owning architecture, feature implementation, and performance optimisation.
- Built and enhanced data-driven platforms in food tech (Foodini), carbon tracking (Carbon View), and telco (Gigaclear), collaborating directly with clients and product owners across Australia and the UK.
- Mentored junior engineers, delegated tasks, and built CI/CD pipelines for scalable, reliable deployments.
- Built frontend modules and integrated them with backend APIs to deliver end-to-end solutions.

Software Engineer · Ayra Analytics

Feb 2020 - Sept 2020

- Engineered scalable, high-performance software for the Octopus BI analytics platform with a focus on user-centric design.
- Ran rigorous testing and managed deployment pipelines across environments, adhering to CI/CD and version-control best practices.

Software Engineer · Deep Data Insight

Feb 2018 - Jan 2020

- Designed and implemented Python-based backend APIs exposing complex machine-learning model outputs at scale.
- Built frontend interfaces tightly integrated with backend ML pipelines, and owned deployments and knowledge-transfer for junior developers.
- Contributed to optimisation of ML model performance in production.

EDUCATION

Bachelor of Information Technology · University of Moratuwa

2015 - 2019

Moratuwa, Sri Lanka

- Final-year research project: a fraud-detection system for credit / debit-card transactions built with Python, Flask, Angular, Node.js, and autoencoder neural networks.

EARLIER EXPERIENCE

Trainee Software Engineer · Vitte Pvt Ltd (Aug - Nov 2017) and Open Arc Systems (May - Aug 2017), Sri Lanka. Developed ERP solutions on the Odoo framework, ran system testing, and assisted in cloud deployments.

LANGUAGES

English: Professional working proficiency (C1 / C2) **Sinhala:** Native **Swedish:** Basic (learning)

REFERENCES

Available on request.