

THEEKSHANA SANDARU

Software Engineer

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ABOUT ME

As a seasoned Software Engineer with over 7 years of extensive expertise, I am adept in a suite of programming languages including Python, JavaScript, Go, and Hack Lang. My specialization lies in back-end development where I excel at crafting scalable architectures, fine-tuning performance and deploying robust APIs. My experience extends to working seamlessly with cross-functional teams, adeptly converting intricate requirements into streamlined, effective solutions. I am passionate and dedicated to writing clean code, advancing automation and bolstering data integrity, all of which are instrumental in generating significant outcomes within fast-paced, dynamic environments.

SKILLS

- Python Django FastAPI Litestar LangChain LLM Integrations JavaScript TypeScript ExpressJS React / Redux
- NextJS Vue NestJS Go Fiber / Echo Hacklang MySQL / PostgreSQL AWS web services GitHub Actions Docker
- Kubernetes

WORK EXPERIENCE

Full Stack Engineer | Meta (via AVT) | Singapore | Mar 2024 - Aug 2025

- Spearheaded the successful migration of over 5 Petabytes of data from Dropbox, OneDrive and Microsoft systems to Google Drive, **achieving USD 1.4M cost savings in 2024 and an additional USD 1M by August 2025.**
- Developed, designed and tested backend applications and modules for large-scale document migration, ensuring high performance, scalability and reliability.
- Optimized data processing and applied advanced reprocessing techniques to enhance data quality, integrity, and resource efficiency.
- Worked in partnership with cross-functional teams including Legal, Executive Support, Data Engineering and Data Science teams to ensure compliance and smooth execution of migration activities.
- Created and executed mass communication scripts to keep Meta-wide teams informed of migration progress and milestones.
- Contributed to technical recruitment efforts by conducting interviews and supporting the selection of top engineering talent.

Full Stack Engineer | GIC Pvt Ltd | Singapore | Sep 2022 - Mar 2024

- Designed and developed data visualization and analytics dashboards tailored to investment criteria and user specifications.
- Architected system infrastructure to enhance scalability and ensure resilience under diverse workloads.
- Developed a **Retrieval-Augmented Generation (RAG) chatbot**, leveraging internal financial documents to facilitate employee access to trading and investment policies.
- Managed full lifecycle software development, including coding, refactoring, testing, and deployment.
- Managed secure SFTP connections between GIC and partner banks (e.g Bank of America) for automated data exchange.
- Automated complex workflows using Apache Airflow, integrating Python scripts for efficient process orchestration.
- Conducted load testing and implemented API monitoring to improve system performance and responsiveness.

Software Engineer | ItelaSoft Pvt Ltd | Nugegoda, Sri Lanka | Oct 2020 - Sep 2022

- Designed, developed, and deployed backend systems across multiple projects, owning architecture, feature implementation and performance optimization.
- Built and enhanced data-driven platforms in domains including food tech (Foodini), carbon tracking (Carbon View) and telco (Gigaclear).
- Collaborated with clients, product owners, and domain experts across Australia and the UK to gather requirements and ensure business-aligned solutions.
- Mentored junior engineers, delegated tasks and supported team growth and productivity.
- Implemented and optimized CI/CD pipelines and monitored system performance to ensure scalability, reliability, and smooth deployments.
- Developed frontend modules and user interfaces where required, integrating backend APIs to deliver complete end-to-end solutions.

Software Engineer | Deep Data Insight | Feb 2018 - Jan 2020

- Collaborated with cross-functional teams to design and implement APIs for complex ML model outputs.
- Developed robust Python-based back-end APIs focused on scalability, performance and reliability.
- Designed intuitive front-end solutions, ensuring seamless integration with back-end functionalities.
- Spearheaded deployment processes and facilitated knowledge transfer sessions, empowering junior developers.
- Contributed technical expertise to optimize machine learning model performance, driving innovative solutions.

INTERNSHIP

Trainee Software Engineer | Vitte Pvt Ltd | Nugegoda, Sri Lanka | Aug 2017 - Nov 2017

- Developed ERP solutions using the Odoo ERP framework, enhancing business processes.
- Collaborated with cross-functional teams to design and implement software features.
- Conducted system testing and debugging to ensure application reliability.

EDUCATION

Bachelor of Information Technology, University of Moratuwa, Moratuwa, Sri Lanka | 2019

- Developed a final year research project: a fraud detection system for credit/debit card transactions. Utilized Python, Flask, Angular, NodeJS, and Autoencoders in system development.

REFERENCE

References available upon request