Rasike Abeyratne

rasike.abeyratne@gmail.com

+94773 160308, +94112 180169

https://www.linkedin.com/in/rasike-abeyratne/

https://www.rasike.me/

Self-driven Software Architect with over 19 years of experience delivering enterprise-grade solutions across Java, JavaScript (Node.js, Express, React, Angular), and .NET ecosystems. Proven expertise in designing and implementing scalable, cloud-native architectures on AWS, Azure, and GCP, with a strong focus on microservices, event-driven systems, and modern DevOps practices. Experienced in building secure, high-performance platforms and leading complex backend systems from design through production. Actively applying AI-assisted development using tools such as Claude Code, GitHub Copilot, and Cursor.ai to accelerate delivery, improve code quality, and enhance system design. Recognized for strong analytical thinking, adaptability, and effective collaboration, with a consistent track record of delivering robust, future-ready solutions aligned with business and organizational objectives.

Core Competencies

Programming Languages: Java, JavaScrip, TypeScript, C#.NET, Go, Python, C++

Backend & Frontend Frameworks: Spring, Node.js, NestJS, React, Angular, Ember, Knockout.js

Cloud, DevOps & Platform Engineering: AWS, Azure, GCP; Docker, Kubernetes, KEDA; CI/CD pipelines using Jenkins, Bamboo, Azure CI/CD, Git; GitOps-based delivery with ArgoCD; containerized, cloud-native application deployment and scaling.

Data Stores & Data Formats: MSSQL, MySQL, MongoDB, Oracle 11g, PL/SQL, DynamoDB, Azure Cosmos DB; JSON-based data interchange and API design.

Testing, Quality & Security: JUnit, Jest, NUnit, Selenium WebDriverIO, SonarQube, Veracode, ESLint, FxCop; quality gates integrated into CI/CD pipelines.

Architecture & Engineering Practices: Microservices, RESTful APIs, domain-driven design, event-driven architectures, Agile (Scrum), SDLC, DevOps, design of scalable, resilient, and fault-tolerant systems.

AI, LLMs & Intelligent Systems: AI-assisted development using GitHub Copilot, Cursor, Claude Code; integration of LLMs (GPT, Claude) into production systems; agentic AI workflows for document intelligence, observability, and decision support.

Observability & Reliability Engineering: OpenTelemetry, Prometheus, Grafana, Datadog; distributed tracing, custom metrics, structured logging; SLO/SLA design, alerting strategies, latency and error analysis for microservices and AI-driven platforms.

Domains: Financial Services (capital markets, trading, loan lifecycle systems), Education platforms, ERP (IFS Cloud, SAP), Sales Force Automation, Healthcare and research systems.

Leadership & Professional Practices: System architecture ownership, technical leadership, mentoring, cross-functional collaboration, performance optimization, secure coding practices, design patterns, and engineering best practices.

Professional Experience

AI Engineering Project — Google AI Partner Catalyst Hackathon (2025 December - 2026 February)
 (Independent / Innovation Project)

TraceForge – AI Observability & Reliability Platform
Developed TraceForge as part of the **Google AI Partner Catalyst Hackathon**, focusing on production-grade observability for LLM-powered systems. Designed an AI observability platform to trace LLM execution stages, tool calls, failures, latency, and cost across distributed workflows. Implemented OpenTelemetry-based instrumentation with custom metrics, traces, and SLOs integrated into **Datadog** for real-time monitoring and alerting. Enabled early failure detection, reliability analysis, and cost accountability for AI features. Built a modular Node.js/TypeScript backend with extensible telemetry pipelines suitable for enterprise and regulated environments.

Product Engineering Project — LMA Edge Hackathon (2025 November - 2026 March)
 (Independent / Innovation Project)

LEXA Ledger – AI-Enabled Digital Loan Lifecycle Platform
Developed LEXA Ledger as part of the **LMA Edge Hackathon**, delivering a production-ready platform that models a loan as a living digital system rather than a static document. Integrated AI-driven capabilities to extract, structure, and reason over loan documents, enabling explainable clause interpretation, covenant monitoring, and downstream impact analysis. Implemented intelligent workflows for trading readiness assessment, ESG KPI evaluation, and scenario simulation using AI-assisted analysis and decision support. Designed a modular, domain-driven architecture with secure authentication, role-based authorization, tenant isolation, and auditability. Built scalable backend services and a desktop-first, enterprise-grade UI to support transparency, regulatory compliance, and informed decision-making across the full loan lifecycle.

Product Engineering Project — Devpost Baseline Tooling Hackathon (2025 October - 2025 December)
 (Independent / Innovation Project)

Baseline Check Tool – Web Compatibility & Optimization Platform
Developed Baseline Check Tool as part of the **Devpost Baseline Tooling Hackathon**, delivering a comprehensive web development tooling suite for automated compatibility analysis and optimization. Designed a modular platform comprising an NPM package and a self-contained VS Code extension with zero-setup installation. Implemented six integrated analysis engines covering baseline compatibility, performance, security, accessibility, SEO, and bundle optimization, supported by AI-powered recommendations and automated issue fixing. Built real-time diagnostics, interactive dashboards, and a unified developer hub with 12+ CLI and VS Code commands. Published and maintained the tool on the **npm Registry** and **Visual Studio Code Marketplace**.

Eco - Friendly Web Alliance (2022 October - Up to Now)
Technical Consultant / Principal Architect - Volunteering
Responsibilities
Supporting the effort to reduce the carbon emission of websites - Playing a core role in design and developing web solutions for calculating carbon emission of a website. Also providing users with detailed reports about their web sites, how to improve carbon emission level.

IFS R & D International (Pvt.) Ltd (2022 November - 2025 November)
Software Architect
Responsibilities
Crafting the right architecture to solve the business problems. Leading cross functional teams to develop highly scalable software systems. In-depth analysis of current software systems, propose & implement architectural and design changes to accommodate current and upcoming business requirements.

Projects

Impact Analyzer – Experience Framework – (GO, Java, KEDA, Kubernetes, Docker, MongoDB, JSON, SonarQube, Veracode, ArgoCD, Prometheus, Azure CI/CD)
Software Architect
Responsibilities
The purpose of impact analyzer is to get an idea about the impact on client customizations when clients are looking for a new IFS application version. Impact analyzer report will guide them through the changes made in core and its impact on customizations. Various techniques were used there to ensure consistency and availability. K8s clusters get scaled according to the number of messages available in the queue. Get use of the KEDA to handle the scaling. Event driven scalable architecture inside the cluster makes sure the optimum usage of resources.

IFS Developer Studio – (Java, Oracle, PLSQL, NetBeans, SonarQube, Veracode, Docker)
Software Architect
Responsibilities
IFS Developer Studio is responsible for generating all the meta data and boilerplate code required for entities modeled by developers. It increases the developer efficiency by cutting down the development time in a very high proportion. In addition, it execute the static code analysis to avoid developer issues. There are fully automated CI/CD infrastructure to provide frequent releases with required quality.

Pristine Solutions (Pvt.) Ltd
Software Architect (2022 January - 2022 November) - Contract
Responsibilities
Crafting the right architecture to solve the business problems. Leading cross functional teams to develop highly scalable software systems. In-depth analysis of current software systems, propose & implement architectural and design changes to accommodate current and upcoming business requirements.

Projects

SFA - Sales Force Automation - (C#.NET, Angular, NodeJS, MSSQL, SAP Business One, Typescript, HTML, CSS)
Allow sales teams to concentrate on the most critical tasks by relieving sales team members of administrative responsibilities. Pristine SFA enables sales representatives to spend more time on activities that are more likely to result in sales. It streamlines the overall sales process by using the most effective strategies. It allows managers to get insight into the effectiveness of the sales process. The reporting and analysis features allow team leaders to monitor what is going on and make changes to areas that need to be improved, resulting in a considerably more productive sales experience overall.

LogisticOne - (C#.NET, Angular, NodeJS, SAP HANA, Typescript, HTML, CSS)
LogisticOne allows you to access vital data at the touch of a button. This enables you to evaluate the complete cost of your actions and minimize future costly mistakes. With cutting-edge mobility capabilities, LogisticOne allows you to access data and report on the move. You may also save time by minimizing the complexity of a firm and introducing a cleanly structured system of work-flows that makes the entire logistics process more efficient and leads to time savings.

Rhino Partners (Pvt.) Ltd. (2021 January - 2021 December)
Lead Developer - Contract
Responsibilities
Leading cross functional teams to develop highly scalable software systems. In-depth analysis of current software systems, propose & implement architectural and design changes to accommodate current and upcoming business requirements.

Projects

CCIA - System for Cancer Research Institute - (NodeJS, Nestjs, React, MySQL, AWS S3, Docker, Kubernetes, Typescript, HTML, CSS)
With CCIA, we transformed the research, analysis and prediction experience of cancer curators with the use of cutting-edge technology. With our tailor made software solution curators effectively manage and complete their research with ease, much more effectively and work with bulk data loads and save a lot of their time. It is a web based solution, frontend implemented using react and backend with the Node, Express, NestJS and MySQL. AWS S3 used as a storage location for plots and images.

Codegen International (Pvt) Ltd. 2018 July - 2020 November
Technical Team Lead (2018 July - 2020 November)
Responsibilities
Crafting the right architecture to solve the business problems. Leading cross functional teams to develop highly scalable software systems. In-depth analysis of current software systems, propose & implement architectural and design changes to accommodate current and upcoming business requirements. Develop & Manage Back-end and Middle-ware Applications which contribute, transform and disseminate data in school management context. Define boundaries when integrating with third party software, introduce development best practices, testing best practices, CI / CD tools and deployment best practices.

Projects

Cloud Smart School - Seamlessly Connected Education - (Java, NodeJS, JavaScripts, Angular, Ionic, MySQL, MongoDB, Json, HTML5, CSS3, Docker, Kubernetes, GCP, Jenkins)

With Cloud Smart School, we are transforming the learning experience of children with the use of cutting edge technology. Our solution is tested and proven for school management, learning management and remote interactive learning capabilities to strengthen the education system for new-age students, who are curious and always on the lookout for something inspiring. Student Centric Invigorating Education Solution.

DirectFN (Pvt) Ltd. (2008 January – 2018 July)
Senior Consultant Process / DevOps (2016 March – 2018 July)
Responsibilities
Define suitable software development life cycle for the company, align development, testing and operations teams accordingly. Define and implement a continuous delivery process which suits DirectFN. Introduce required continuous delivery tools and frameworks. Design and implement a custom test automation framework which suits company automation requirements, manage it, guide and mentor QA engineers to use it.

Senior Tech Lead (March 2012 – March 2016)
Responsibilities
Crafting the right architecture to solve the business problems. Leading cross functional teams to develop highly scalable, fault tolerant & transaction critical software systems. In-depth analysis of current software systems, propose & implement architectural and design changes to accommodate current and upcoming business requirements. Develop & Manage Back-end and Middle-ware Applications which contribute,transform and disseminate stock market data to Institutional and Retail Investors.

Projects

DirectFN Test Automation Framework - (NodeJS, JavaScripts, Excel, Json, Selenium WebdriverIO)
DirectFN Test Automation Framework is an end-to-end testing framework which can be used to test all the applications run on the browser. This is based on webdriverio (http://webdriver.io/) and implemented using JavaScript on NodeJS. Specialty of this framework is once the framework is in place QA engineers just have to define test cases in the excel file. Price data features, trading features, correct application of CSS classes and values of the CSS classes, iterating through grids and verifying row by row etc. are available with this testing framework. Also this can be extendible to whatever the level user wants by writing custom commands. Currently this framework is integrated in DirectFN continuous delivery framework to test DirectFN's major client product (DirectFN Netplus) before sending it for UAT.

DirectFN Netplus – (Ember, JavaScript, HTML5, CSS3, Bootstrap, Ember CLI)
DirectFN wanted to have feature rich, high performance, and responsive front end to view the stock market data using modern web technologies. Business expects zero latency for real time data and less than one second delay for initial page loading. It's required to use this web application for smartphones and other devices with minimum changes. Also it's expected to be highly customizable for the use of different markets and brokers, and needs to be highly scalable to support any number of concurrent markets. In the long run they want to use this as a front end framework to build all the front end applications for DirectFN.

DCP API – (C#.NET, Oracle 10g, NHibernate, Json, Quartz, WWF, WCF)
DCP API provides a unified way to insert price and fundamental data into a company

backbone. DCP is a web based application through which price and fundamental data from several providers can flow through to the company backbone. DirectFN content team insert data to company back bone via DCP API. In addition, DCP API has integrated with multiple data providers all over the world (e.g. Morningstar) to get the data directly to the company backend. In addition to data contribution, DCP is responsible for automatic data validation, data auto generation based on inserted data and notifying clients and responsible parties about the data updates and failures.

Excel Add In - (*C#.NET, ASP.NET, Oracle 10g, Excel, Excel C API, Excel DNA*)
DirectFN clients want fundamental and financial data to retrieve to their Microsoft Excel application. So DirectFN provides an excel add – in, once installed it's become part of the excel and using DirectFN functions and DirectFN user controls added to excel can retrieve data from DirectFN back – end directly to Excel. So DirectFN clients can view and analyze data using a familiar & much convenient excel environment.

DCP Web - (.NET 4.5, ASP.NET MVC 4, KnockoutJs, JQuery, Java Script)
DCP web provides a lightweight, less complicated, responsive web interface to contribute market, financial & fundamental data into the DirectFN central backbone. DCP web is used by the internal & external contributors to contribute data. This also includes the administration tool to manage user creation, manage user & institutional permission hierarchies and insert, update & view required Metadata.

DBS - (.NET 4.5, ASP.NET MVC 4, WWF 4.0)
DirectFN wanted to have an autonomous data validation & verification framework, which can be easily managed by the content team without involvement of the development team. DirectFN Data Screener provides an interface for creating rules, scheduling rules & notifications on data of DirectFN central database.

Tech Lead (January 2010 – March 2012)
Responsibilities
Leading cross functional teams to develop highly scalable, fault tolerant & transaction critical software systems.

Projects

MMDI.NET - (.NET 2.0, CruiseControl.NET, MSBuild)
Mubasher, Major solution provider for the middle-east region to view price data and do trades in various stock markets. The goal of this project is to standardize price information vending to third parties. This will be the standardized interface of Mubasher which exposes internal and external development teams to integrate their own clients or servers with a central price dissemination system.

DirectFN DT - (.NET 2.0, Syncfusion, CruiseControl.NET, MSBuild)
Major challenges with Mubasher DT is to provide dealers with the real time market data in a user friendly manner, handling huge amounts of data with hundred percent accuracy, to get decisions on trading and execute trades on top markets of the region within seconds. Being a .NET desktop application its architecture is based on a smart client software factory. It uses Microsoft best practices, design patterns and few third party tools to improve user experience.

EStore - (.NET 2.0, ASP.NET, Oracle 10g)
DirectFN EStore is a web portal where price based DirectFN products are sold online. The whole transaction process line is automated so that users can purchase or renew their user accounts using Credit Cards, PayPal and even Bank Transfers. Furthermore, both Arabic and English language support is provided for users.

Senior Software Engineer (January 2008 – January 2010)

Projects
DirectFN TWS - (.NET 2.0, Syncfusion, CruiseControl.NET, MSBuild)
Major challenges with Mubasher TWS is to provide end users the real time market data in user friendly manner, implement market forecasting tools and strategies, handling huge amounts of data which receive through multiple data channels from the data centers world-wide. Being a .NET desktop application its architecture is based on a smart client software factory. It uses Microsoft best practices, design patterns and few third party tools to improve user experience.

Virtusa (Pvt) Ltd. (September 2006 – January 2008)
Software Engineer

Projects
RDM - (C#, WCF, WWF, .Net 3.0, MSMQ 3.0, BizTalk 2006, MSSQL 2005)
Virtusa has been engaged to design and develop an enterprise standard for a reliable, highly scalable and an efficient data movement solution, between the retail hosting centers and the stores of the areas of the world implementations of McDonalds. The RDM solution focuses on standardizing the disparate technologies in use today and on improvements on the timeliness of data transmission by building the ability to have near real time data transfer capabilities. Furthermore, RDM provides an extensible solution that minimizes the cost of solution for franchise owners & support constraints through near zero-touch supportability.

Vanguard - (.Net 3.0, MSMQ, WCF)
The business problem was to develop the "Connector Framework Manager" of Courion's Provisioning Product. The design of the product was based on SOA Architecture and was developed using .NET Framework 2.0 and 3.0. Technologies such as "Windows Communication Foundation"," Microsoft Message Queuing" were used as some of the key technologies.

Academic Qualifications

University Of Moratuwa
I am an Engineering graduate of the University of Moratuwa, specializing in the field of Computer Science & Engineering.

Nalanda College, Colombo 10
G.C.E. Advanced Level - 3 A's in Physical Science Scheme

Extra-Curricular Activities

Former Executive Committee Member, Future Minds Secretariat; contributed to organizing and delivering the Future Minds Expo, Sri Lanka's leading education and career exhibition.
Former Secretary, Matugama Sports Club
Senior Prefect, Nalanda College, Colombo - 10.
Athletics and Soccer.

Personal Details

Full Name : Rasike Yasanthe Abeyratne.
Date of Birth : 1981/09/21
Gender : Male
Nationality : Sri Lankan
Civil Status : Married
Passport No : N9561737