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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 & Frameworks:** Java (Spring), JavaScript (ECMA 6+), C#.NET, Go, Python, TypeScript, Node.js, React, Angular, Ember, , Knockout.js
- **Frontend:** HTML5, CSS3, Web Components
- **Testing & Automation:** JUnit, Jest, NUnit, Selenium WebDriverIO, Jenkins, Bamboo, Docker, Kubernetes, Git, ESLint, FxCop, NAnt, NCover, SonarCloud, VeraCode
- **Databases:** MSSQL, MySQL, MongoDB, Oracle 11g, PL/SQL, DynamoDB, Azure Cosmos DB
- **Cloud & DevOps:** GCP, AWS, Azure, Infrastructure as Code (IaC)
- **Architecture & Methodologies:** Microservices, RESTful APIs, Agile (Scrum), SDLC, DevOps
- **Domains:** Financial Services, Education, ERP (SAP, IFS Cloud), Sales Force, Healthcare
- **AI & LLMs:** Code Assist (e.g., GitHub Copilot, Cursor), LLMs (GPT, Claude), Agentic AI platforms for automation and decision-making
- **Tools & Concepts:** Code IntelliSense, AI-powered code suggestions, Excel C API, Excel DNA, OOP, Design Patterns, Best Practices, Team Leadership

Professional Experience

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 - Up to Now Software Architect (2022 November - 2025 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.

Projects

Impact Analyzer – Experience Framework – (GO, Java, KEDA, Kubernetes, Docker, MongoDB, JSON, SonarQube, Veracode, ArgoCD, Prometheus, Azure CI/CD)

Software Architect (2022 November - Up to Now)

Responsibilities

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 make sure the consistency and availability. K8s cluster 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 make sure the optimum usage of resources.

IFS Developer Studio – (Java, JSON, Docker, Oracle, PLSQL, NetBeans, SonarQube, Veracode, X-ray)

Software Architect (2022 November - Up to Now)

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 2022 January - 2022 November 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 (2021 January - 2021 December) - 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 Continuous Delivery Framework - (Java, Jenkins, Sonarqube, Jira, NodeJS, JavaScript, Selenium)

For each source code check – in the CD framework triggers a build to check the build issues (Continuous Integration) if build success it gets deployed in a development server. In a predefined time in a day development release gets deployed in a QA server and executes the end to end tests on it. On completion of test execution QA engineers get notified with test results. He can login to the framework and can promote the build to UAT or Production server using Jenkins build promotion. Through Jira can tag the related CRs or Bugs for a particular release and through sonarqube can visualize the static analysis results of code.

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, WCF, WFE)

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

MMDL.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 member of Future Minds secretariat, Conducting Future Minds Expo - No 1 Education & Career Exhibition in Sri Lanka.

Senior Prefect of Nalanda College.

Soccer & Athlete.

Personal Details

Full Name : Rasike Yasanthe Abeyratne.

Date of Birth : 1981/09/21

Gender : Male

Nationality : Sri Lankan

Civil Status : Married

Passport No : N9561737