Vidya Muniswamy Gunashekar

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EXECUTIVE SUMMARY

Result-driven Software Engineer with 6+ years of experience in SaaS product development lifecycle from concept to launch, utilizing agile frameworks and insights to deliver high-quality products. Led the energy sector transformation through delivery of a new Central Energy Market Information System for a major electric market in Finland, generating €41.9 million in revenue.

EDUCATION

University of Washington – Foster School of Business (STEM)   Seattle, United States
Master of Science in Information Systems | GPA: 3.91   June 2023

R V College of Engineering   Bangalore, India
Bachelor of Computer Science Engineering | GPA: 3.98   July 2014

EXPERIENCE

Curajoy, Seattle, USA   **July 2023 – Present**
Role: Senior Software Engineer (Internship)
Product: An integrated wellness platform nurturing social-emotional skills and enhancing behavioral health for every family member, offering clinician-crafted content, personalized coaching, engaging games, practical projects, and incentivized achievements—accessible anytime, anywhere.

- Leveraged microservices, Spring Boot, and REST APIs to transform Quest Depot product into a platform enabling third-party agencies to seamlessly join and offer emotional wellness services.
- Built a data ingestion system using AWS Kinesis streams and Lambda functions to capture chatbot user data for training an emotional state prediction ML model, with dynamic scaling from low to over 500 transactions per second (TPS).
- Introduced Docker containerization and configured CI/CD pipelines with ECS Fargate, leading to automated deployments and a 2-day reduction in software development and engineering effort.
- Engineered a DAO service to manage data from external third parties, mitigating the risk of exposing internal resources such as the database and optimizing data flow acrosss services.
- Managed AWS cloud environments (QA, Test, Prod) for the MVP phase, configuring Route 53 for DNS, an Application Load Balancer (ALB) for traffic distribution, CloudTrail for log management and integrated Amazon Cognito for user management.

Technologies: Java 8, Spring Boot, REST API, AWS (CI/CD tools, VPC, API G, ECS, ECR, S3, IAM, EC2, LAMBDA, DDB, CloudTrail), Docker, Microservices, Agile, Integration Testing, Distributed System, System Design, User Stories, UI/UX

CGI Inc, Bangalore, India   **Nov 2016 – Nov 2019**
Role: Senior Software Engineer
Product: CMS is a modular system facilitating data sharing and communication among energy sector participants managing smart metering, consumer contracts, and energy measurement data, while also providing centralized grid fee billing and settlement functions.

- Led product design and development of a cloud based Datahub system for a leading energy market with over 80 electricity retailers, serving 3.8M energy data points reducing 45% implementation costs and overall TCO.
- Architected phased product roadmap through enterprise workflow analysis, adopting API-enabled microservices architecture for a modular CMS, achieved adoption rate of ~82% within first quarter of product launch.
- Created a versatile messaging schema for real-time energy rate exchange, reducing customer inquiries by 90% and saving 7 SDE days per month.
- Drove the creation of critical REST API microservices within the CMS product under agile development practices, resulting in a contribution of over 80% to the codebase.
- Architected the message module and provided guidance in system design, facilitating accelerated learning for a team of 4 junior engineers and resulting in a 30% increase in their productivity.
- Managed the process of packaging applications in Docker containers and deploying them on Kubernetes (K8s) within a streamlined CI/CD pipeline controlled by Jenkins, ensuring smooth application deployment and efficient build management.
- Utilized Kanban board agile methodology to track and manage project progress, ensuring transparency, efficient workflow, and timely delivery of tasks and milestones for the CMS product development.
- Leveraged Apache Kafka to implement a highly effective pub-sub model, guaranteeing seamless data transfer between inbound and outbound modules, thus enabling real-time data processing, and substantially improving the reliability of our communication infrastructure.
- Debugged and resolved bugs using the Junit framework, SOAP UI and SonarQube, resulting in a 15% improvement in system efficiency.

Technologies: Java 8, SQL, Microservices, Spring Boot, Spring MVC, AWS (S3, RDS, SQS, SNS), Kubernetes, Jenkins, Agile, Postman, SOAP, SOAPUI, Junit, REST API, OData, JSON API, jQuery, JPA

Caterpillar India Private Limited, Bangalore, India   **Jul 2014 – Nov 2016**
Product: A subsidiary of Caterpillar Inc. with a significant presence in India, contributing to the country's construction and mining industries
Role: Asc IT Software Engineer

- Spearheaded the development of the CAT Reman product, orchestrating the migration from on-premises infrastructure to AWS cloud, resulting in an impressive 60% improvement in overall system efficiency and substantial cost savings of 0.5M.
- Achieved a 22% reduction in tickets for the team by designing and implementing interactive user interfaces for cat dealers using JavaScript, enhancing user experience, and improving overall team efficiency.
- Effectively managed and resolved JIRA tickets, maintaining a high closure rate of 95% and reducing average resolution time by 20%, optimizing team productivity and ensuring efficient issue tracking and resolution.

Technologies: Core Java, Java 8, REST API, MySQL, Spring framework, Spring Web, AWS, Agile, Postman, Junit, JIRA, Incident Management, Technical Documentation