

Saravanan Muthusamy

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Application Development	Versatile developer with 16 years of experience in design & implementation of scalable, highly available, business critical software systems using Golang, Java/JEE and Cloud technologies.
Cloud, CI/CD, DevOps	
SOA, IoT, Micro Services, Kubernetes, SaaS	Experienced in designing and developing Cloud Native & SaaS applications to Digital Ocean, Azure and AWS cloud platforms. Expertise in enabling CI/CD and DevOps practice.
Web Services, OOD/OOA	
Analytics, AI/ML	Transformed monolith application into a cloud agnostic microservice application.
UI, Single Page Application	Extensively worked on performance tuning and fixing memory leaks for high performance & high volume transaction application.
Test Automation	
TDD, BDD, Telecom, EMS, Scrum	Transformed migrating C++ application to different hardware architecture and operating system. Worked on memory error detection tools such as Valgrind and address sanitizer.
Agile Software Development	

TOOLS AND TECHNOLOGIES

- Java, Golang, Python, R, Spring Framework, Spring Cloud, JPA, Hibernate, Ansible, NGINX, Terraform, Jenkins, GoCD, SVN, Git, Kafka, thrift, Protobuff, GRPC, Maven, Gradle, Flyway, Eclipse Memory Analyzer, VisualVM, Tomcat, JBoss, Spring Boot 2.0, MySQL, MariaDB, PostgreSQL, Cassandra/ScyllaDB, Redis, Kubernetes, Prometheus, Helm, Istio, NATS, Kiali
- Cloud Computing - AWS, Azure, Eucalyptus and Digital Ocean
- Operating Systems - Linux, Solaris

Work Experience

ChargePoint – Senior Staff Software Engineer

Nov 2021 – till date

HID Global - Architect

Jan 2019 – May 2021

Bluzone is an IoT platform that enables the customers to use indoor location finding, asset tracking and conditional monitoring.

Involved in design, architecting and implementation of IoT solution using Cloud services and cutting edge technologies.

- Involved in design and implementation of application features that demands high performance and better scalability
- Have an expertise in performance tuning and scaling of the application to handle Millions of devices
- Involved in migrating the application to k8s platform
- Enabled the application to run on multiple cloud providers(AWS and Azure)
- Worked on application monitoring and alerting by collecting various application metrics
- Experienced in profiling the Golang applications for memory analysis and performance tuning
Environment: Java, Golang, k8s, MySQL, ScyllaDB, NATS, Spring Boot 2.0, Terraform, AWS, Azure, S3, Azure container storage, EventHub, Kinesis, Prometheus, Grafana, REST API, GRPC, Protobuff.

Start-up

Jul 2017 – Nov 2018

SaaS based retail solution for demand forecasting and automated replenishment using AI/ML

- Experienced in identifying the ML and Statistical models to provide a solutions
- Involved in Data collector and Integration with different applications
- Defined build, release and deployment process and CI/CD using GoCD. Automated the infrastructure using terraform
- Designed & developed a polyglot micro service application and exposed services as REST API's.
Environment: Java, Kotlin, Python 3.x, R, Pandas, React 16.4, Ansible 2.5.x, Spring framework,

Spring cloud, Hibernate 5.x, Spring Boot, PostgreSQL 9.4, Gradle, Retrofit, REST API, Spring JPA, SQS, S3, terraform, AWS cloud.

Nokia(Alcatel-Lucent) - Senior Technical Specialist

Jun 2014 - Jul 2017 Network Analyzer

Network Analyzer is a cost-effective, remote management solution for fiber access networks. It leverages the service provider's access equipment capabilities to speed up fiber activation, assess network performance, and localize and identify faults in the access infrastructure. This software tool helps service providers reduce operating expenses (OPEX), increase activation success rates, and improve the overall customer experience.

- Worked on migrating the legacy monolith application to Microservice architecture
- Improved the scalability of the application to manage 6M ONT's
- Responsible for designing, implementing a solution and coordinating the team • Defined build , release and deployment process and CI/CD using Jenkins
- Implemented event driven micro service architecture.

Environment: Spring4.x, Hibernate, Selenium, SOAP, SNMP4j, thrift, Kafka, IntelliJ, Maven 3.x, MariaDB 10.x, RedHat Linux.

Alcatel-Lucent - Technical Lead. 5520 Access Management System (AMS)

Jan 2008 - May 2014

5520 Access Management System (AMS): AMS is the next-generation element management system for the ISAM broadband access product family (DSL and fiber-based access).

- Responsible for technical deliverables of SNMP Runtime and Statistics Data Collector Modules.
- Designed and Implemented the Statistics data collector.
- Implemented clustering and enhanced application for fault tolerance and high availability.

Environment: Java 1.6, JMX, Spring Framework 2.5, Hibernate 3.3, JMS, Snmp4j, XML, JAAS, JGroups, Maven, MySQL5.x, Eclipse RCP, JUnit, JBoss 5.1 GA/JBoss 7.2, LINUX, Solaris and Windows.

**Alcatel-Lucent
TL1 Gateway**

Mar 2006 - Dec 2007

The Alcatel-Lucent 5520 Access Management System External TL1 Gateway (AMS External TL1 GW) routes TL1 messages between users such as OSS support systems, OSS operators and element management operators, to all terminating network elements (TNE) with connectivity to the host server. The TL1 Gateway provides a standard TCP/IP interface

Role : Developer

Environment : C, C++, Unix (Solaris), Linux

Advanced Land Navigation System(Bharat Electronics Ltd)

Jan 2005 to Jan 2006

Role –developer.

Environment : C, PSOS(RTOS)

At BEL, I was involved in development and testing of Advanced Land Navigation system (ALNS). ALNS is to navigate the soldiers and army tank in a war zone. This works in two three modes namely GPS, Inertial and Hybrid Mode. It has 3 units namely INU, CDU, DDU. Gyro has been used in inertial mode to navigate the system.

Education: Bachelor of Engineering (Computer Science) 74%

Aug 2000 - Apr 2004