# Saravanakumar Arunachalam

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## Professional Summary

Software engineering professional with over 14 years of experience specializing in cloud-native, microservice, and event-driven architectures. Proficient in Java, Go, Python, Spring, Kubernetes, and AWS, with expertise in developing scalable, secure, and high-performance solutions. Strong background in DevOps, CI/CD, and infrastructure automation using Terraform and Helm. Passionate about driving innovation and solving complex challenges in high-volume, high-velocity data systems.

## Skills

**Backend Development:** Java, Go, Python, NodeJS, Spring, Microservices, Event-Driven Design

**Cloud & DevOps:** AWS, Kubernetes, Docker, Terraform, Helm, CloudFormation, AWS CDK

**Streaming & Messaging:** Kafka, Kinesis, SQS, SNS, Flink

**Frontend Development:** HTML, CSS, JavaScript, Angular, ReactJS

**Databases & Storage:** Oracle, Postgres, MySQL, MongoDB, ElasticSearch, DynamoDB, S3

**Design & Architecture:** DDD, CQRS, Circuit Breaker, Saga, Distributed Systems

**Development Practices:** SOLID, TDD, Pair Programming, Agile (Scrum/Kanban)

## Professional Experience

### Senior Engineer - Platform – Geico

Charlotte, NC | Jun 2024 – Present

* Designed and developed a serverless platform leveraging Knative, KEDA, Istio, and cert-manager on Kubernetes.
* Deployed container-as-a-service (CaaS) and function-as-a-service (FaaS) solutions to support scalable, performance-driven architectures.
* Led cross-functional collaboration to solve complex challenges, ensuring high-quality, user-focused results.
* Improved operational efficiency through process enhancements and technical strategy execution.
* Implemented observability tools, including Loki and Grafana, into the serverless platform to enable continuous monitoring, streamline issue detection, and enhance system reliability.

### Senior Software Engineer – Fidelity Investment (Contract)

Remote | Apr 2024 – Jun 2024

* Developed high-performance algorithms for trading and cryptocurrency workflows, streamlining buy/sell transactions.
* Promoted CI/CD practices for efficient and reliable software delivery.
* Mentored junior engineers and aligned solutions with strategic business objectives.

### Backend Software Engineer – VMware Carbon Black

Remote | May 2022 – Apr 2024

* Designed scalable microservices architecture for data pipelines, enhancing reliability and reducing latency.
* Led feature development for high-throughput event processing and alerting systems.
* Optimized pipeline performance with modern frameworks and ensured alignment with evolving security requirements.

### Senior Consultant – Lincoln Financial Group

Remote | Dec 2019 – May 2022

* Transformed contact center applications into scalable microservices on AWS, improving performance and reliability.
* Led proof-of-concept initiatives, designed Admin UI applications, and streamlined configuration management.
* Conducted code reviews and mentored junior engineers to foster team development.

### Senior Software Engineer – J.B. Hunt Transport Services

Lowell, Arkansas | Mar 2018 – Dec 2019

* Managed order processing for intermodal and truckload operations using Spring Boot and cloud infrastructure.
* Developed resilient microservices with Netflix OSS stack, improving operational efficiency.
* Provided mentorship and implemented high-quality, scalable solutions.

### Consultant – Syntel

Atlanta, Georgia | Oct 2016 – Feb 2018

* Designed and developed responsive web applications with microservices for enhanced scalability.
* Contributed to system design solutions and mentored team members.
* Engage in Pair Programming sessions and adhere to Test-Driven Development (TDD) practices to ensure code quality, reliability, and maintainability throughout the development lifecycle.

### Senior Software Engineer – Photon Infotech

Philadelphia, Pennsylvania | Dec 2014 – Oct 2016

* Designed and developed responsive web applications with microservices for enhanced scalability.
* Contributed to system design solutions and mentored team members.
* Engage in Pair Programming sessions and adhere to Test-Driven Development (TDD) practices to ensure code quality, reliability, and maintainability throughout the development lifecycle.

### Software Engineer – LTI

Chennai, Tamil Nadu | Oct 2011 – Dec 2014

* Led full-stack development for scalable web applications, focusing on microservices and Agile methodologies.

### Software Developer – IndigoTx Software Technologies

Chennai, Tamil Nadu | Apr 2010 – Oct 2011

* Led full-stack development for scalable web applications, focusing on microservices and Agile methodologies.

## Education & Certifications

Bachelor of Engineering – Computer Science, Anna University

AWS Certified Solutions Architect – Associate