

Vinay Kumar Reddy Seelam

Seattle, WA (Open to relocation) | 408-791-7294 | vinayseelam.08@gmail.com | [linkedin.com](#) | [My Portfolio](#)

EDUCATION

Master of Science in Software Engineering

Jan 2022 - Dec 2023

San Jose State University, CA, USA

Bachelor of Engineering in Computer Science

Jul 2015 - May 2019

Sathyabama Institute of Science and Technology

Coursework: Cloud Computing, Database Management, Data Structures, Design & Analysis of Algorithms, Python, Artificial Intelligence, Machine Learning, Computer Networks, Distributed Systems, Object-Oriented Programming.

TECHNICAL SKILLS & INTERESTS

- **Languages:** Java, JavaScript, Python, C#, C++
- **Web Technologies:** React.js, Angular, Node.js, GraphQL
- **Cloud:** AWS, Cloud principles (General Cloud Knowledge), Terraform, AWS Lambda, CI/CD, Git, Docker
- **Database:** MySQL, MongoDB, RDBMS
- **Frameworks & Tools:** Spring Boot, Spring MVC, Spring Core, JPA, Hibernate, JDBC, Maven, Gradle, Jira
- **Testing Frameworks:** JUnit, Mockito

WORK EXPERIENCE

Software Engineer Intern | ResMed | Atlanta, GA

May 2023 - Aug 2023

- Implemented **REST APIs** with Java, Spring Boot, using **ER data modeling** and **JUnit** for secure, efficient verification.
- Utilized **AWS Lambda** and **API Gateway** for serverless **GraphQL** implementation, enhancing API flexibility.
- Enhanced system performance by implementing **multithreading** in Java, efficiently managing concurrent tasks.
- Employed **AWS CloudWatch** for comprehensive API testing, enhancing data exchange and reducing errors by 30%.
- Implemented advanced code testing protocols with **JUnit** and **Mockito**, achieving over 90% test coverage.

Software Engineer | Cognizant Technologies

Dec 2019 - Jan 2022

- Developed Spring Boot **RESTful Microservices** deployed on **AWS EC2** instances, serving clients and 15,000+ users.
- **Guided** a team in app development, enhancing UI via React-Spring Boot integration hosted on **AWS ECS**.
- Accelerated deployment by 20% and improved application availability by 15% through **Docker** and **Kubernetes**.
- Automated **CI/CD** pipelines using AWS services and **Terraform**, increasing software release frequency by 30%.
- Championed **clean code practices**, resulting in a 25% reduction in code review times and an increase in code quality.
- Collaborated in an **Agile Environment** with a team of 12 to create a web platform to collect regulatory data.

ACADEMIC PROJECTS

Simulation of Stack-Overflow (Java, Spring Boot, ReactJS, MySQL, Kafka)

- Developed a scalable platform using **Java** and **Spring Boot**, ensuring efficient handling of large data volumes.
- Utilized **GraphQL** to enable flexible querying of event data, optimizing API capabilities and performance.
- Implemented real-time data streaming with **Kafka**, enhancing event processing and ensuring data ingestion.

Scalable E-Commerce Platform Monitoring Solution (Java, React, CloudWatch, DataDog, Terraform)

- Implemented a scalable e-commerce infrastructure using **Terraform**, streamlining AWS resource management.
- Integrated AWS CloudWatch and **DataDog** with Terraform for automated monitoring and anomaly detection.
- Optimized backend data handling with **Java** and **GraphQL**, using Terraform's **IaC** for efficient deployment.

AI-Powered Event Recommendation Engine (Java, Spring Boot, React JS, AWS (RDS, S3), TensorFlow)

- Enhanced backend performance with **Java & Spring Boot**, using **GraphQL** for efficient data handling.
- Implemented **microservices** to enhance scalability, ensuring seamless integration with diverse technologies.
- Utilized **AWS RDS** and **S3** for efficient data storage, enhancing accessibility & security of the recommendation engine.

ACCOMPLISHMENTS

- Achieved the prestigious "Best Project Poster Award" at the esteemed International Conference on Artificial Intelligence and Machine Learning, recognizing exceptional innovation and expertise in the field.

Mar 2019