

# Venkata Sai Kiran Kureti

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## PROFESSIONAL SUMMARY

Full-stack Software Engineer with 3+ years of experience in developing scalable web applications and cloud solutions using Java, Spring, Azure, and CI/CD automation. Adept in designing efficient APIs, optimizing database performance, and implementing DevOps strategies. Proven track record in delivering high-performance solutions in FinTech and supply-chain domains. Holds a Master's degree in Computer Science and open to relocation.

## EXPERIENCE

### Software Engineer, American International Group – Jersey City, New Jersey

August 2023 – Present

- Developed an insurance module using **Java**, **SpringBoot**, **Angular** in microservices architecture enabling seamless handling of policy issuance
- Orchestrated migration of legacy systems to modern architectures, including database handling with **JPA** and **PostgreSQL**, streamlining data processes, reducing latency by 49%
- Enhanced secure authentication mechanisms with **OAuth** and **JWT tokenization**, ensuring compliance and reducing security vulnerabilities and unauthorized access incidents and provide on-call support for cloud deployments
- Resolved production bugs involving inconsistent data synchronization by diagnosing issues with **JSON data dumps** and API integration
- Developed and maintained unit and integration tests using **JUnit**, ensuring 98% code coverage and significantly reducing production bugs
- Optimized application performance by using code-splitting, lazy loading, and memorization techniques, leading to faster initial load times and improved performance in low-bandwidth environments
- Monitored performance metrics using **AWS CloudWatch**, optimizing API response using **AWS EC2**, improving backend processing speeds and Kafka for event-driven architecture, facilitating seamless communication between microservices
- Deployed serverless functions using **AWS Lambda** and integrated **DynamoDB** for real-time data access and processing and employed **Kubernetes (AWS EKS)** to ensure high availability and scalability of the application, achieving 99.99% uptime
- Configured and managed **CI/CD** pipelines with **Jenkins**, **Git** enabling continuous deployment and reducing system downtime during updates
- Collaborated within Agile teams following the **SAFe**, using **JIRA** for bug tracking and sprint planning, leading to on-time feature delivery

### Full Stack Developer, Texas Tech University – Lubbock, Texas

February 2022 – May 2023

- Engineered a scalable survey management system using **Java/J2EE**, enhancing user experience by integrating **REST APIs** and **JSON** for seamless data exchange facilitating enhanced application using **MVC** and **Singleton**, resulting in improved code modularity
- Designed reusable front-end components using **React.js** and **Redux**, optimizing that survey creation and response interfaces
- Administered **Role-Based Access Control (RBAC)** to manage permissions and roles for different user groups, ensuring secure access control for administrators, survey creators, and respondents
- Facilitated an agile development, implementing object-oriented programming (**OOAD**) principles to write clean, maintainable code, contributing to reliability of the project and configured data partitions, indexing policies, replication strategies to optimize **Azure CosmosDB** for scalability
- Revamped integration of algorithms with J2EE components, including **servlets**, **JSPs**, and **EJBs**, to maintain consistency across the system
- Conducted performance testing and tuning using **JMeter**, ensuring scalability under high-load conditions and deliver quick response times
- Elevated system performance by implementing **SQL** database caching strategies, reducing execution times for retrieving survey history

### Software Engineer, KIMFABS – India

June 2019 – July 2021

- Superheaded a comprehensive supply chain management system using **Java**, **Spring Boot**, and **Hibernate**, streamlining operations and improving efficiency by 35% supply chain inventory tracking
- Instituted dependency injection to create modular, testable, and maintainable components, enhancing application flexibility and ease of updates
- Developed **RESTful APIs** (up-downstream) to integrate with third-party logistics providers, enhancing tracking and inventory management
- Applied data caching techniques using **Redis** minimizing database load and data retrieval time, and reducing response times for user requests
- Leveraged **Azure Functions** and **Azure DevOps** to deploy and manage supply chain systems, ensuring scalable infrastructure
- Implemented data processing and **ETL** (Extract, Transform, Load) workflows using **Spring Batch** to handle high volumes of logistics data, including shipments, inventory and engaged with cross-functional teams through agile and code reviews to align on project requirements
- Built intuitive and user-friendly interfaces using **ReactJS** and **Node JS**, implementing the **Model-View-Controller (MVC)** architecture for efficient code organization and maintenance

## PROJECT

### Master's Project (Vulnerability Assessment System) under Dr. Akbar Namin, Texas Tech University, ([github.com/VSaiKiran93/HackersToolkit](https://github.com/VSaiKiran93/HackersToolkit))

- Devised an open-source full-stack web application for vulnerability assessment and network scanning using Python, Django, OpenVAS and Nmap

## TECHNICAL SKILLS

**Programming:** Java, Python, C/C++, C#, JavaScript (ES6+), SQL, HTML5, XML, CSS3, TypeScript, AJAX

**Frameworks & Libraries:** J2EE, JVM, JDBC, Spring, MVC, Hibernate, JSP, Servlets, Struts, Django, NodeJS, Express JS, jQuery, React, Angular

**Databases:** MySQL, PostgreSQL, MongoDB, Cosmos DB, DynamoDB, GraphQL | **Cloud & DevOps** Azure, AWS, Docker, Kubernetes, Terraform

**Tools & Testing:** Git, SVN, JIRA, Maven, JUnit, Mockito, JMeter, Selenium, Swagger, Jest, Postman, SoapUI, Ansible, Cucumber, Tomcat, Kafka

**Methodologies:** Agile/Scrum, Data Structures, Algorithm Design, Design Patterns, SDLC, Unit Testing, Integration Testing, SASS

## CERTIFICATIONS

Microsoft Certified: Azure Developer Associate AZ-204 (<https://learn.microsoft.com/en-us/users/kirankureti-8148>)

## EDUCATION

**Master of Science**, Computer Science – Texas Tech University

August 2021 – May 2023

**Bachelor's degree**, Electronics and Communication - Gandhi Institute of Technology and Management (GITAM)

July 2017 – June 2021