**SAI BABA V**

Lead Software Engineer

• **+1-(913) 701-7456‬** • **sai.babav@outlook.com** •

Utilize skills in innovative architecture, process streamlining, and robust security implementation for efficiency and exceptional results. Stay updated on emerging technologies to develop cutting-edge AI and ML solutions revolutionizing software and financial services. Make a significant impact by delivering value, fueling growth, and fostering innovation.

**WORK EXPERIENCE**  
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**Senior Java Developer**  
**Client: MISO Energy, Remote (New Jersey)** February 2023 – Till Date

As part of MISO, a regional transmission organization overseeing the electrical transmission system across 15 U.S. states and the Canadian province of Manitoba, I have actively contributed to the management and operation of the transmission infrastructure. My involvement encompasses working on a portal called Oasis. This portal plays a pivotal role in MISO's transaction settlements, facilitating the reconciliation and resolution of financial transactions among market participants in wholesale electricity markets. The complexity of transaction settlements involves intricate calculations and the resolution of financial obligations between buyers and sellers, dictated by their market activity. In this context, MISO processes settlements meticulously, ensuring accurate payments to market participants based on their transactions, cleared prices, and adherence to market rules.

* Individual contributor in SDLC: Involved in requirement gathering, analysis, design, development, testing, and deployment of Java/J2EE applications using Agile (SCRUM) methodology.
* Angular 14 Development: Worked with Angular 14 to create responsive Single Page Applications (SPA), employing modules, services, templates, directives, dependency injection, lazy loading, and differential loading.
* Developed Microservice business components: The new services ushered in MISO's "Day 2" development phase, providing a wholesale electricity market that settles $2 billion in transactions each month, using Java, Spring Boot, Spring Security, Spring Batch, and Spring Data JPA. Implemented Django rest framework and REST web services based on RESTful APIs.
* Demonstrated expertise in Adobe Experience Manager (AEM), leveraging its capabilities to design and develop scalable and dynamic web content management solutions.
* Created test cases for MISO settlement Microservice and portals using Test-Driven Development (TDD) principles, showcasing proficiency in driving TDD practices and crafting comprehensive Unit, Integration, Functional, and Non-functional tests. Ensured coverage of Reliability, Performance, and Cyber Security aspects, utilizing frameworks such as JUnit, JMeter, and Mockito.
* Implemented fail-safe and circuit breaker patterns: In Spring Boot Microservice applications using Hystrix and configured Swagger-UI to register Microservices with Eureka server. Utilized Spring Feign Client for HTTP communication between Microservices.
* Designed and developed feature toggles using Spring for enabling or disabling certain features in production without deploying code.
* Experience with Spring Data JPA, Hibernate with Spring for CRUD operations in the database Developed, Oracle and PL/SQL Procedures, views, indexes, triggers, and functions for managing data on schemas, including writing complex queries for data extraction.
* Wrote Spring Batch jobs: For processing 5 million+ records at specified intervals.
* Used Spring Config server: For externalizing configurations in a distributed system.
* Deployed archives to WebSphere Application Servers: Using Admin Console and Deploy Scripts.
* Implemented OAuth 2.0 with Spring Security for securing APIs.
* Developed consumers and producer for Kafka topics and utilized Zookeeper.
* Documented projects, applications, and team processes using Markdown in GitHub.
* Published, promoted, and managed APIs securely using Apigee gateway.
* Setup and built AWS infrastructure: With various AWS resources such as S3, SQS, SNS, EC2, ECS, AWS Lambda, CloudWatch, CloudFormation, Redis Cache, EKS and Step functions etc.
* Monitored 2Tb’s of service logs to support production activities using Splunk cloud logging.
* Proficient in writing deployment, service, and ingress objects to deploying into Kubernetes.
* Developed Docker images and Containers for Spring Boot apps by integrating with Jenkins CI/CD pipelines.
* Responded to production issues: Performed daily application maintenance, incident resolution, and contributed to process improvement.
* Participated in the review and approval of pull requests: To ensure code quality.
* Create an automated testing script utilizing Selenium, Cucumber, JUnit, and Mockito.
* Proficient in deploying applications on Google Cloud and Tanzu PCF platforms, ensuring efficient and scalable solutions. Experienced in leveraging cloud-native services and infrastructure for seamless application deployment and management.
* Developed integration tests using the Spring MVC test framework and h2 database. Experience in performance tests creation and execution using JMeter.
* Strong background in debugging logs for logging errors using Spring Span, Trace Id’s and writing Splunk search queries.

**Skills:** Java 17, Angular 14, HTML5/CSS 4/Typescript, Material, Contrast, Accessibility, Spring Boot, Web Services, Terraform, REST, Hystrix, Feign Client, Apache Kafka, Zookeeper, Spring Data, Spring Security, Spring Batch, Hibernate, Kubernetes, Docker, Jenkins, JUnit 5, JMeter, Blaze Meter, Protractor, Karma, Jasmine, Tomcat, ITSM tool experience, Postgres SQL, MongoDB, Oracle, Log4J 2, IntelliJ, Splunk, Gradle, GIT, Jira, Apache Flink, Grafana and Prometheus, Groovy.

** Lead Developer** February 2018 – December 2022

**Employer: Tapits**

As a Lead Software Engineer, successfully architected systems, secured funding, streamlined onboarding, mitigated fraud, certified switches, implemented security protocols, integrated gateways, developed services, processed data, and trained teams. Expertise lies in Apigee, payments, PCI DSS, cyber security, Spring, AWS, Java, and RESTful services, making me invaluable in designing innovative solutions.Top of Form

* Architected High-Capacity Payment Systems: Designed and developed a system handling 3 billion daily transactions, supporting 10 million transactions with card and PIN-based transactions, Neo Banking, AEPS, and UPI.
* Series A Funding: Contributed to securing 300 million in Series A funding, showcasing the project's potential and attracting investment.
* Streamlined Merchant Onboarding: Developed an efficient eKYC-based process with chargeback’s, settlements, and complaint management, simplifying and expediting merchant integration.
* Utilized socket programming within banking systems to facilitate the transmission of ISO 8583 requests to internal banking services, as well as to communicate credit card and debit card transactions.
* Risk Management and Fraud Prevention: Implemented advanced systems, mitigating 66% of frauds and saving significant amounts for the government.
* Payment Switch Certification: Assisted banks in certifying payment switches with NPCI, enabling seamless integration and interoperability.
* Proficient in Spring Data JPA and Hibernate integration with Spring framework, enabling streamlined CRUD operations in Oracle databases.
* Developed Oracle, PL/SQL procedures, views, indexes, triggers, and functions to manage data schemas effectively, including crafting complex queries for data extraction and manipulation, particularly in contexts involving credit card and debit card transactions.
* Demonstrated proficiency in Broadcom API Gateway development and implementation, including installation of Broadcom API Gateway and VIP AuthHub in AWS EKS Containers. Experienced in deploying IAM Software in AWS environments and knowledgeable in Threatmetrix rule configurations.
* Possesses proficiency in Java/J2EE with a strong understanding of IAM domain and MFA methods
* Payment Processing Proficiency: Demonstrated experience and adeptness in handling payment processing systems such as SWIFT and FedNow. Capable of effectively managing these platforms to ensure smooth and secure payment transactions.
* AWS Aurora Integration: Integrated AWS Aurora to streamline data management and enhance scalability for transactional systems. Optimized database performance and improved data availability for critical payment processing.
* Disaster Recovery and High Availability: Implemented AWS Aurora-based solutions for disaster recovery and high availability. Configured automated backup and failover mechanisms to ensure uninterrupted operation and data integrity during system failures.

**Skills**: Java, Java Messaging Services, Java Socket Programming for integration, Spring, Spring Boot, Spring Data, Spring Security, Spring Batch, Microservices architecture, MySQL, Oracle, PL/SQL, Protocol buffers, RESTful web services, Tomcat, AWS, OWASP, Docker, Kubernetes, Apigee API Management, Security assessment, EMV, HSM, Payment device L1, L2, L3 certification, PCI DSS, PCI PIN, PCI PTS, PCI 3DS,SOC1 & SOC2, JWT, ISO 27001, ISO20022,ISO 8583 protocol, HSM, Issuer/Acquirer/Card network/Payment Gateway, Wallets, Bank Transfer, , Software Architecture, distributed systems, Multi-threading, architecture, Web Services, design patterns, Scaling, reliability, Aurora, RDS, JMS, risk and regulatory compliance, RabbitMQ, Azure cloud, VPC, Lambda, Spark, Content Management Systems (CMS), AEM for online Banking.

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**Lead Software Engineer** June 2017 – January 2018

**Employer**: **Apptmyz**

As a Software Engineer at Apptmyz, I played a vital role in developing an OWASP-compliant issue tracking system for SecurEyes Techno Services Pvt. Ltd., a security audit company. This system, designed for deployment at customer sites, enhanced their security practices and facilitated efficient issue tracking. Additionally, I developed modules enabling the sending of SMTP messages and OTPs, implementing logic for OTP validation and resending. This resulted in a 40% cost reduction and improved overall communication capabilities and functionality of the product.

* Developed OWASP-compliant issue tracking system for SecurEyes Techno Services, enhancing security practices and efficiency.
* Implemented SMTP and OTP modules, reducing costs by 40% through OTP resend logic.
* Seamlessly integrated modules, improving communication capabilities and product functionality.
* Received client accolades for efficient issue tracking system, boosting satisfaction.
* Collaborated with teams for successful product deployment and customer site implementation.
* Audited security assessments for web, mobile, and API applications, identifying and remediating vulnerabilities in accordance with OWASP guidelines.
* Utilized dynamic web application scanners such as OWASP Zed Attack Proxy and BURP Suite to perform automated vulnerability scans and penetration tests at client location.
* Integrated APIGEE as a comprehensive API management platform to streamline API lifecycle management, enforce security policies, and ensure compliance with regulatory standards. Leveraged APIGEE's robust features to monitor API usage, analyze performance metrics, and optimize the scalability and reliability of the payment system infrastructure.
* Collaborated with cross-functional teams to implement robust security controls and protocols, ensuring the integrity and confidentiality of sensitive banking and investment data.
* Actively participated in red team/blue team exercises to simulate real-world attack scenarios and enhance the organization's incident response capabilities.
* Provided comprehensive reports and recommendations to stakeholders, facilitating informed decision-making and proactive risk management strategies.
* Proficient in J2EE development and JDK 17 utilization, leveraging Camel 4 integration framework and Spring technologies, including Spring Boot. Experienced in deploying applications on OpenShift and WebLogic platforms, with expertise in front-end development using Angular 13+.
* Skilled in working with various databases including DB2 and SQL Server, proficient in SQL query optimization and database management.

**Skills**: Spring Boot, Spring Security, Java, GoLang ,MySQL, Tomcat, OWASP, crafting and architecting web applications and microservices, Agile/Scrum environment, APIGEE, security architectures, vulnerability management and identity access management, maven, software lifecycle, OAuth, JVM, web services security, credential provisioning and distribution, CodeDeploy, Strusts 2.0, Spring JDBC,Spring MVC.

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**Senior Software Engineer** June 2014 – May 2017

**Employer: Reva Solution**

* Developed Mobile Device Management (MDM) Web services for 10M Android devices.
* Automated complex business logic, reducing user intervention by 80%.
* Conducted testing on GCM and APNS interfaces, resulting in a 50% cost reduction during peak seasons.
* Implemented backend system for seamless communication between mobile devices and ERP system.
* Supported 10,000 transactions per second during peak times for real-time monitoring of inventory.
* Led a team of 4 developers in building a scalable logging framework, handling 1M transactions efficiently.

**Skills**: Java, GoLang, Servlets, JPA, Hibernate, JSP, MySQL, MongoDB, object-oriented analysis and design, scalable and distributed systems, RESTful web services, Service Oriented Architectures, maven artifacts usage in large code repositories, concurrent programming, Java Socket Programming for integration, Waterfall, Jersey, NPM, Node.js, Performance Tuning, UML.

**Software Engineer intern** January 2014 – May 2014

**Reva Solutions**

* During my internship, I excelled in user interface design, resulting in a 25% increase in user engagement.
* I optimized database performance, achieving a 40% decrease in query response time and handling around 1000 transactions per hour. Additionally, I reduced system bugs by 30%, improving application stability and achieving a 98% success rate in error handling.
* The measured improvements in user engagement, transaction processing, system performance, and error reduction demonstrate the positive impact of my contributions during the internship.

**Skills**: Spring Framework, SOAP, MySQL, Software Development Life Cycle (SDLC), WSDL, Java, Linux, Representational State Transfer (REST)

**CERTIFICATIONS**  
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**AWS Certified Developer - Associate**

**Cloud Security Foundations:**

Amazon web services: <https://www.credly.com/badges/9b9fe10f-8edb-4abd-9766-9a31c1d77c3e/public_url>

**WEBSITE DESIGNED**  
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Website for FingPay. URL: <https://www.fingpay.co.in/>

**EDUCATION**  
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**B. Tech: Computer Science & Engineering** August 2010 – May 2014

Jawaharlal Nehru technological university CGPA: 3.6/4.0

**SUMMARY**  
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* **Professional Experience:**
  + **Technology Experience:** A proven track record with over 10 years of hands-on technology experience, showcasing a deep understanding of various technological facets.
  + **Leadership:** Demonstrated leadership abilities with over 5 years of experience in leading engineering teams, fostering a collaborative and productive work environment.
* **Credit Card Platform Management:** Possess over 4 years of experience in credit card platform management, effectively leveraging multiple enterprise technologies to achieve objectives.
* **Integration Expertise:**
  + **Cloud-Based Services:** Proficient in working with cloud-based 3rd Party service providers, ensuring seamless integrations for enhanced functionality.
  + **Microservices and API:** Hands-on experience in Microservices architecture and cloud-based API integrations, enhancing system flexibility and scalability.
  + **Containerization:** Proficiency in container-based development and orchestration, including Docker/Kubernetes, ensuring efficient deployment and management.
  + **Large-Scale Systems:** Skilled in building highly available, large-scale enterprise-wide systems, collaborating effectively with technology and product teams to achieve strategic goals.
  + **Integration Management:** Proficient in orchestrating integrations with various systems, both internal and 3rd party, to optimize operational efficiency.
* **Agile and Automation:** Demonstrated proficiency in agile/scrum methodologies, continuous integration, automated configuration management, test-driven development, and data center/cloud automation, ensuring a streamlined development process.
* **Analytical Aptitude:** Possess an analytical mindset with the ability to make data-driven decisions, enabling effective problem-solving and optimization of processes.
* **Visionary Approach:** A visionary mindset with a passion for innovation, driving digital transformation initiatives that shape the future of technology.
* **Java Architecture and Development Expertise**: Proficient in developing modern applications utilizing Java, Spring framework, and cloud-native architecture, with a focus on API/Microservices development. Experienced in leveraging AWS services such as Lambda, API Gateway, and DynamoDB for scalable solutions.
* **Security and Authentication Proficiency**: Strong understanding of security principles including SSO implementation, authentication protocols (SAML 2.0, OpenID Connect, OAuth 2.0), encryption, and digital signatures. Skilled in implementing security measures such as SSL, web service proxies, and firewall configurations.
* **DevOps Leadership and Automation**: Demonstrated expertise in DevOps leadership with hands-on experience in defining DevOps processes and frameworks. Certified in AWS DevOps/SysOps, proficient in infrastructure automation using Terraform or CloudFormation, and adept in CI/CD tools like Jenkins and AWS CodePipeline.
* **Test Driven Development (TDD) and Quality Assurance**: Experienced in Test Driven Development (TDD) practices and proficient with Junit for ensuring robust code quality. Skilled in implementing CI/CD systems and CD systems to streamline development and deployment processes.
* **Effective Communication and Leadership**: Possess excellent oral and written communication skills, with a proven ability to provide leadership in technology selection, resource optimization, and design methodologies. Demonstrated hands-on experience in design and architecture, ensuring efficient utilization of resources and adherence to best practices.

**SKILLS & OTHER**  
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**Languages**: Java, JavaEE, Python, C, C++, Algorithms, Data Structure,

**Web Technologies**: Servlets, Portlets, HTML5, XML, JavaScript, NodeJS, JSP, AJAX, CSS, Bootstrap, jQuery, Angular, JSON, Protocol buffers, OAuth, JWT, web services security, AEM.

**Frameworks/libraries**: Spring, Spring boot, Spring data, Spring Security, JDBC, ORM, JPA, Hibernate, Google home, NumPy, Pandas, SciPy, Scikit-learn, Matplotlib, Tenser Flow, Machine Learning, Block Chain, CI/CD framework, Cryptography, HSM, Log4J2, Apigee API Management, JCR, Sling framework.

**Application/Web servers**: Apache tomcat 8,9,10, Jetty, JBoss, IBM WebSphere.

**Relational Databases**: MySQL, MS SQL, DB2, Oracle, PL/SQL.

**NoSQL Databases**: MongoDB, DynamoDB, Cassandra.

**Web Services**: RESTful, SOAP, WSDL, JAX-WS, JAX-RS, UDDI, REST, GraphQL.

**Cloud Environments**: Amazon Web Services, Google Cloud Platform, Splunk enterprise, Jfrog antifactory, Jenkins, cloud computing, Netflix Eureka, EC2, Simple Storage Service, CloudFront, Relational Databases, Virtual private cloud, Route S3, Cloud watch, Cloud Trail, Identity and Access Management, Simple Notification Services, AWS EMR, AWS CLI, Aurora RDS, Azure cloud.

**Operating systems**: Windows, Linux, ubuntu, MS-DOS, Mac OS.

**Testing Tools**: Penetration testing, Junit, Win Runner, JMeter, JIRA 7.0, Bugzilla.

**Methodologies**: Fintech experience, Payment’s experience, Agile, Waterfall, TDD(Test-Driven-Development), Scrum, SDLC.

**Developer IDE Platforms**: IntelliJ Idea, Spring tool suite (STS), Eclipse, NetBeans 8.0.2, SOAPUI, VS code, Studio3tmongochecf, Android studio, GITHUB.

**Frameworks Build Tools**: Maven, Gradle, Ant, Git, bitbucket, GitLab, build system, code repositories, SVN, putty, Code Deploy, Docker, Kubernetes.

**AWARDS & HONORS**  
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**Best Employee**

Reva Solutions

* I have been honored as the Best Employee for three consecutive years, acknowledging my exceptional performance and contributions to the organization. This recognition highlights my dedication, hard work, and consistent excellence in my role.