



SATHESH SIVASHANMUGAM

+1 (408)368-6424

satheshshiva@gmail.com

PROFESSIONAL SUMMARY:

- More than **17 years** of experience in the IT industry, involved in complete SDLC involving analysis, design, development, testing, implementation, maintenance of Internet/Intranet applications.
- Worked in technologies including **Java, J2EE, Golang, Spring, Hibernate, Node JS, Webservices, RESTful APIs, Kafka, NoSQL databases and Mule ESB.**
- An **Agile** Practitioner involved with every step-in Test-Driven Programming including Sprint planning, Sprint retrospective, Sprint iteration, Back log grooming, Release planning.
- Functional domain experience in Banking and Financial Services, Manufacturing.
- Specialized in infrastructure architectural design, API integration techniques, J2EE web technologies.
- Ability to learn new technologies quickly and mastering the framework.
- Developed apps in the Android Java Framework and published in Google Play Store.
- Experience in Linux command line interface and batch scripts

TECHNICAL SUMMARY:

Languages:	Java, Golang, JavaScript,
Java J2EE Technologies:	Spring, Hibernate, Servlets, JSP, Webservices, RESTful API, Kafka
Frontend:	Angular JS, React JS, jQuery, HTML 5
Databases:	Oracle, Postgres, DB2, MongoDB(NoSQL), Redis
Tools:	Eclipse IDE, IntelliJ IDEA, Android studio, Anypoint studio
Web Servers:	Tomcat, SAP Netweaver, JBoss
Repositories:	Git, SVN, Gitlab, Stash(Bitbucket)
Builders:	Maven, Ant, Gradle
Continuous Integration	Jenkins, XL Release
Automation Frameworks	Cucumber, Selenium

ACHIEVEMENTS:

- Winning team for the Hackathon event (GrowthHack-2017) at AMEX. Developed an application, which accepts card payments based on Car License number.
- Have discovered a security threat in the Wipro employee's portal, named "MyWipro". A hacker can steal the browser cookie from the victim and authenticate himself to the website as a victim. Have reported the threat to the proper authorities and resolved the security threat.

PROFESSIONAL EXPERIENCE:

Senior Cybersecurity Engineer II
American Express, Phoenix, AZ, USA
Full Time Employee
Sep 2025 to Present



Lead engineer within the Security Engineering team, spearheading the development of enterprise-grade cryptographic utilities that enable secure data handling across American Express's global infrastructure.

Responsibilities:

- Led a scrum team responsible for designing, developing, and maintaining cryptographic libraries and utilities in Java, Python, and Golang, serving as foundational security components adopted across multiple business units.
- Architected and implemented cryptographic solutions including encryption/decryption modules, key management interfaces, hashing utilities, and secure token generation services to meet enterprise security and compliance requirements.
- Conducted code reviews and security assessments to identify vulnerabilities within cryptographic implementations, driving remediation efforts to ensure robust protection against emerging threats.
- Collaborated closely with product management and architecture teams to translate security requirements into scalable technical designs, balancing performance considerations with cryptographic best practices.

Environment: **Java, Python, Golang, Microservices, Kafka, Jenkins, GitLab, Postgres**

Senior Engineer I
American Express, Phoenix, AZ, USA
Full Time Employee
Jan 2019 to Aug 2025



Working in the Security Engineering team of Amex. Lead scrum team which develops cryptographic utilities used widely across Amex

Responsibilities:

- Leads a team which primarily works on the development of cryptographic utilities in Java, Python and Golang.
- Coding necessary components, finding vulnerabilities and fixing it.
- Mentor and guide junior engineers and interns
- Works closely with product team and designs the system

Environment: **Java, Python, Golang, Microservices, Kafka, Jenkins, GitLab, Postgres**

Software Engineer
American Express, Phoenix, AZ, USA
Full Time Employee
Nov 2015 to Dec 2018



Worked on multiple applications in the US Loyalty Technologies sector that earns and burns the Loyalty points for the card members.

Responsibilities:

- Development of multiple micro service applications, which processes rewards
- Write the automation test scripts and integration tests

Environment: **Java, J2EE, Golang, Spring, Angular JS, Micro services, Paas, Kafka, Mongo db, Redis, PostgreSQL, DB2, Jenkins, Cucumber**

Senior Software Engineer**Wipro Technologies****Client: Apple Inc.,****Chennai, Tamil Nadu, India – Dec 2009 to Apr 2013****Sunnyvale, CA, USA – Apr 2013 to Nov 2015**

Worked in variety of Java/J2EE applications including front end and backend applications.

Responsibilities:

- Coded multiple applications written on Java
- Worked on deployment and bug fixing

Environment: **Java, J2EE, Spring, jQuery, Angular JS, Webservice, REST API, Oracle SQL, UNIX**

Software Engineer**Wipro Technologies****Client: MasterCard Worldwide****Chennai, Tamil Nadu, India****Sept 2008 to Dec 2009**

Worked on the Security and Vulnerability team, which scans the Mastercard web applications for security threats and fixes the security threats.

Responsibilities:

- Worked on securing various application against security threats like Cross site scripting(XSS), SQL Injection, Session Hijacking, Cross site scripting forgery(CSRF).
- Implemented sanitizing methods to resolve the security threats

Environment: **Java, J2EE, Spring, Javascript, Oracle SQL, etc.,**

CERTIFICATIONS:

- **Harvard Leadership Excellence – 2020**
- **Spring Certified Professional - 2017**
- **Sun Certified Java Programmer - 2008**

EDUCATION:

Bachelor of Engineering (BE) Computer Science & Engineering '08
Anna University – Panimalar Engineering College, Chennai, India

Linked In Profile: <https://www.linkedin.com/pub/sathesh-sivashanmugam/26/a05/929>

Stack Overflow Profile: <http://stackoverflow.com/users/689956/sathesh>

USA Visa Details: H1B Work Permit