

# Omer Kose

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## Summary

- 15+ years of experience in Information Security.
- CISSP, CSSLP, GXPn, GMOB, GPEN, GCIAH (GIAC) certifications.
- Programming experience in Java,J2EE,HTML,JavaScript,CSS,C,C++,C#,ASP.NET, Android, iOS, Objective-C.
- Substantial knowledge of web application attacks and defense strategies/OWASP Top 10 (SQL injection, XSS cross-site scripting, CSRF, logic flaws, API attacks).
- Detailed understanding of Web, Mobile, Network, Operating systems security.
- Background in penetration testing using tools such as Nessus, Burp, Nmap, Kali Linux, Backtrack, Metasploit.
- Experience assessing and defending wireless networks.
- Experience with managing endpoint and server protection technology such as anti-malware, whitelisting, and vulnerability management tools.
- Strong communication skills and the ability to work collaboratively with IT staff.
- Excellent verbal and Written Communications.

## Experience

### Senior Mobile Security Architect at Verizon Wireless

Nov 2015 - Present

- Designed a mobile VPN architecture capable of serving 100 million customers to protect unsecure Wi-Fi access points
- Created Business case, High Level Design, Functional Requirements, Use Cases and User stories.
- Designed Android UI/UX screen designs.
- Designed public key infrastructures (PKIs), including use of certification authorities (CAs) and digital signatures for VPN client.
- Worked with Verizon Device/Network Specialists to address Voice over WiFi IPSEC/ePDG Client, Device APN, MAPCON, PCRF policy changes to support mobile VPN.
- Evaluated network and machine learning based anti-malware solutions like Zimperium, SecuCloud and Allot.
- Worked closely with Intel/McAfee, Samsung/LG on building/testing Development OS images for the preload of VZ Protect/Verizon Security Privacy Android Application.
- Evaluated various VPN technologies (OpenVPN, IPSEC),vendor products and prototypes using Amazon EC2.
- Extensively researched innovative security products in mobile and internet of things for potential business partnership.
- Reverse engineering various Verizon Mobile Apps for security review and assessment.
- Developed reports for management review.

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## Senior Application Security Architect at Citi Group

May 2012 – Nov 2015

- Conducted end to end analysis and security assessment to identify risks and vulnerabilities in Citi Mobile Banking application, Mobile Services Manager, Citi Business Online, Citi Bank Online applications.
- Identified inefficiencies and made suggestions for process improvements.
- Wrote clear information security requirements and implementation guidelines.
- Reviewed and guided the information requirements have been implemented as per design.
- Verified security systems by developing and implementing test scripts.
- Created lite weight Threat Modeling framework and templates to integrate threat modeling into SDLC.
- Developed Mobile Security Strategy and 3 year road map for improving mobile banking security.
- Evaluated Anti-tampering and anti-reverse engineering tools such as Arxan and Metaforic to protecting mobile banking apps.
- Researched Bitcoin and Block Chain technologies for innovative banking solutions.
- Evaluated IBM Mobile First APIM Security Gateway for securing Micro services API.
- Evaluated and conducted Proof of concept of Cigital SecureAssist to improve Secure Coding.
- Successfully rolled out End to End Encryption technology using JavaScript Encryption.
- Developed reports for management review.

## Senior Security Engineer at TD Ameritrade

Nov 2009 - May 2012

- Performed static code analysis using Fortify, reviewed vulnerabilities and worked with developers to remediate them.
- Performed dynamic web security assessment of TD Ameritrade trading web site using NTOSpider, AppScan and manual scripts.
- Successfully implemented IBM Datapower XI 50 Web Services Gateway to protect Restful and SOAP WebServices.
- Implemented Impreva Web Application Firewall to detect and prevent any web based scanning and intrusion attempts.
- Trained and worked closely with developers on secure coding principles and design patterns.
- Made TDAmeritrade mobile trading applications safer by in-depth mobile security risk assessment of iOS/Android applications and remediated vulnerabilities.
- Formed Security Center of Excellence and rolled out Web Security (WS-Security) standards and guidelines.

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## Security Architect at Guardian Life Insurance

May 2001 - Sept 2009

- Successfully Architected and Implemented Web Security infrastructure using HTTP Reverse Proxy IBM Web Seal/Plugin, IBM Access Manager and LDAP.
- Successfully implemented Identity Management system with Role based provisioning policies using IBM Tivoli Identity Manager.
- Designed and rolled out Java/.NET Security Framework/JAAS for various Security patterns to simplify authentication, authorization, encryption/decryption and cross-domain SSO for Websphere/J2EE/ASP.NET applications.
- Involved in security review, assessment and access control design for GuardianAnytime WebSphere Portal application.
- Managed 14 developers (direct reports) to roll out Annuities and Retirement products.
- Designed and implemented LDAP schema standards and architecture enabling role based web security for Guardian Web Applications.
- Engineered and implemented SSO solution between OnDemand OS390 with WebSEAL and Tivoli Access Manager using SAML tokens. Designed and Implemented Cross Domain SSO solution between eTrust and WebSEAL enabling easier migration from SEOS to TAM using SAML/Custom tokens.
- Created LDAP COM (C++/ATL) interface enabling role based security for legacy Guardian online VB components.
- Implemented SSO solution between Siebel and IBM Web seal reverse proxy.
- Engineered and implemented NT SSO for Guardian at work intranet web portal.
- Designed and implemented Custom Web seal reverse proxy login pages and forgot password web parts for Guardian Anytime using AJAX/JSON.
- Provided standards, guidelines, and mentoring to establish WebSphere based application development and deployment architecture and integration strategy with existing web security infrastructure.
- Designed and implemented password reset modules enabling password synchronization between RACF/NT/TAM/SEOS.

## Education

### University of Iowa – College of Business

MBA, Business Administration

### Government College of Technology, India

B.E, Computer Engineering