

SME Reviewer

Summary

- **Innate skills:** Organized logical analysis, love of technology, ability to bridge technical and non-technical people, farm-based work ethic.
- **Role:** Software architect - I work at the crossroads of application development to solve unique problems.

Experience

Large Multinational Financial Institution

Mobile Security Architect, 2015-Present
Cybersecurity

Provided mobile security guidance to development teams and product owners in the form of reusable design patterns, risk standards definition, position statements, secure coding guidelines, strategy presentations and one-on-one discussions.

- Researched, wrote and presented for approval reusable design patterns in the areas of mobile secure storage, secure network communication, force upgrade and mobile secure resource usage.
- Authored mobile application and mobile device IT risk standards and corresponding application control assessment questions.
- Authored position papers on current/evolving mobile security topics in lieu of defined standards on topics such as voice dictation, Face ID, hybrid app development, mobile application inventory maintenance and the use of beta software in mobile development.
- Assisted in the launch and operation each year starting in 2016, of a firm-wide week-long conference to assemble mobile development leaders, risk professionals and mobile vendors for presentations and discussions. Presented numerous topics across the annual events.
- Constructed an inventory to track mobile-specific metadata for mobile applications created or purchased by the company, which mitigated gaps in the legacy application inventory.
- Coordinated and reviewed content for custom-developed mobile developer training sessions procured from an external application security vendor.
- Assessed regulatory documents (FFIEC, NIST, HKMA) and drove updates to the company's mobile security program as needed.

Achievements/Side Jobs

2015-Present

Mobile Governance Chair

I chair the firm-wide governance forum for mobile technology, leading representatives from each LOB to advance the state of mobile maturity and security.

2015, 2017, 2018

Symposium Speaker

Selected in an annual call for papers, I presented on various risk and mobile security topics to a mix of end users and application developers.

2016

Cybersecurity Awareness Month Speaker

Geared for end users, I presented an overview of mobile security.

2013-Present

Application Security SME

As a part of a software security program, I was trained on secure software creation and testing and lead this function for the Enterprise Mobile team.

2012

Idea Pitch Finalist

As a winner of an idea generation contest, I pitched a task sharing model to the CIO and several of his direct reports.

Created technical designs for iterative projects, delivering firm-wide mobile services for external connectivity and the company's enterprise app store in an Apache/Tomcat/Oracle/Linux stack and mobile apps in iOS, Android and HTML5 clients.

- Conducted IT risk self-assessments and control substantiation. Led the remediation of control gaps.
- Advised application owners and developers on addressing inherent and residual risk and on resolving static scanning and penetration test defects.
- Designed and marketed a two-factor authentication process for external mobile connectivity based on mobile device registration and out-of-band delivery of a one-time code.
- Managed groups of university interns to assess potential incoming talent and conduct "spare time" projects.
- Guided the onboarding and education of new application owners in a pre-sales engineering capacity.
- Led short and long-term responses to vulnerability disclosures (goto fail, Heartbleed, Shellshock)
- Designed infrastructure for server-side systems (both in-house and vendor)
- Designed and co-developed the company's enterprise app store for iOS and Android apps in 2 weeks to support the CEO's annual leadership conference.
- Created and led a firm-wide HTML5 Working Group to promote knowledge sharing across lines of business.
- Assisted with the governance approval for new apps via presentations to the company's mobile governance body.
- Wrote and defended responses to a regulatory audit, achieving a satisfactory rating.

Achievements, continued

2011-Present

Engineer Program

Accepted into a nomination-only technology leader program, I used organizational leadership training to grow a cross-LOB network and educate fellow team members.

2011

CIO Award Winner

Received the annual CIO award for implementation of an external mobile app gateway.

2010

Scanning Java Working Group

Part of a cross-LOB team of developers to evaluate and assign severity to static scanning rules from pmd, findbugs and checkstyle.

2010-2011

Application Development Excellence Lead

Partnering with a project management counterpart, I coached development teams on improving project-related metrics including unit testing coverage, copy/paste reduction and defects per project phase.

2004

CMM Level 2 Process Team

Created documentation standard as part of a team establishing a requirements process for CMM Level 2 assessment and certification.

2000-2002

New Hire Entry

Entered in a new college hire training program, pursuing web development.

Technical Lead, *Tech Portal*

2008-2010

Crafted technical designs and led the implementation of waterfall-based projects for a senior management-facing data reporting portal for project, incident and change management in a WebLogic Portal/MVC/Oracle/Solaris stack.

- Refined requirements with business owners to deliver dashboard and admin console enhancements.
- Worked with backend ETL and Business Objects reporting developers to create end-to-end designs.
- Managed an onshore/offshore team of developers.

Technical Lead & Developer, *Enterprise Portal*

2004-2008

Designed, developed and supported various employee-facing web and portal projects in increasingly responsible capacities across several homegrown and vendor-based stacks.

- Performed custom Java/JSP development within the Vignette Content Management System on WebLogic Server/Oracle/Solaris.
- Created a Developers' Blueprint guide to standardize development tools and procedures across the team.
- Organized a forum of technical leads to standardize technical designs and perform design reviews.
- Performed load testing and capacity planning for new site onboardings using The Grinder.
- Designed and implemented a disaster recovery process.
- Led the development workstream for maintenance releases every 6 weeks across an onshore/offshore team of 10+ developers.
- Redesigned heavy-use content areas to use a static rendering approach to resolve performance issues.

Developer, *Web Services Center*

2000-2004

Worked on various web technologies on diverse projects with multiple lines of business (Retail, Legal, HR, Finance):

- Developed end user-facing websites and admin consoles for content management-focused portals using Vignette V5/V6, JRun, Sybase.
- Developed the team's first Java/JSP site.
- Created a reusable service for the corporate Intranet page header, avoiding redundant development.
- Transitioned application development of a performance management tool from an onshore team to an onshore/offshore model.

Learned Skills

Technical: iOS, Android, Java/J2EE/JSP, HTML, CSS, Javascript, Apache web server, Tomcat, Siteminder SSO, JSON, XML, web services, SQL (Oracle), Linux, JUnit, Jenkins, load testing, high availability/disaster recovery, IT risk & controls assessment, information security, usability, software security, SDLC, Autosys, Fiddler, The Grinder.

Soft: Written communication for technical and non-technical audiences, visual communication, offshore coordination, mentoring.

Education

University of Delaware
B.S. Computer Science
Minor: Business Administration