

Joubin Jabbari

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EXPERIENCE

Software Security Engineer | Federal Reserve Bank of San Francisco | 2016 - present

Worked as a Software Security Engineer for the National Incident Response Team at the Federal Reserve. Implement, modernize and manage Static and Dynamic Application Security Testing tools such as HP Fortify and IBM AppScan. Conducted and managed Security Code Review engagements with business partners.

- Conduct Security Code Reviews and Threat Modeling on critical applications in the Federal Reserve
- Help development teams implement and integrate security activities into their SDLC
- Developed coursework for Architecture Threat Modeling class which was used during three on-site trainings to 90 attendees ranging from Information Security Officers, Field Security Architects, and Software Developers
- Developed tools, scripts, and application for the automation of Qualys report generation and configuration. Decreased man-hours required for Continuous Monitoring Report Generation by 90%
- Write and present an hour long community of practice call for the Software Security Group Newsletter Spotlight on secure software development activities (e.g. OWASP) distributed to over 400 recipients

Computer Scientist – Senior Developer | US Navy - Undersea Warfare Center | 2014 - 2016

Architected, designed, and developed a data collection system that had two major requirements: realtime data acquisition and security. This was achieved using Java and Java RMI for the abstract non-realtime tasks and C for the realtime tasks on separate realtime systems. These two realms were then connected using in house developed REST API.

- Defined appropriate technologies for different stages of the project and influenced the security in the design of the system
- Conducted feasibility and maintainability code review on newly written code. Assisted developers in remediating bad design and vulnerabilities in code by providing line-by-line guidance
- Developed at all layers of the software stack ranging from the embedded system running realtime code to the web application which was utilized rest calls to the backend and presented a rich user interface written in ExtJS.
- Promoted to senior developer after 6 months
- Created hardened systems using DISA and NIST standards
- Implemented crypto standards (AES) on a 16-bit chip while closely following NISTIR 7977

Cyber Security Software Developer | MITRE - Cybersecurity | 2013 - 2014

Authored and developed an algorithm (mostly in Python and C) for correlating websites and web applications for their author by analyzing html coding style, cookie data structures, and third-party API usage programmatically.

- Researched software vulnerabilities
- Analyzed web applications across the web for correlation of authors
- Emulated a TOR research environment using Ghost.

Web Application Security Colloquium | CSUS | 2017 - Present

- Develop materials to teach OWASP Top 10 from the perspective of the developer
- Mentor to Scholarship for Service students

White Team Leader for National Collegiate Cyber Defense Competition | CSUS | 2013 - 2014

- Lead the competition for the school
- Prepared and segmented the network for the Red and Blue teams
- Used Nagios to judge the blue teams
- Used Wireshark to analyze the game

Volunteer Developer | Debian Project | 2006 - 2012

Created environments where software bugs reported to the development team could be replicated, and provided bug fixes in code.

- Researched and fixed software vulnerabilities
- Automated package management for Debian's package repository
- Developed code to implement bug fixes in Debian's kernel modules
- Managed author implementation, integration, and consolidation of common application security implementation merged or staged for distribution by the Debian project.

EDUCATION

Johns Hopkins | 2017 – 2020

Concentration: Cybersecurity - MS: Computer Science

California State University, Sacramento | 2010 – 2014

Concentration: Cybersecurity and Information Assurance - BS: Computer Science

SKILLS

Languages

Java | C | C++ | C# | SQL | Swift | Objective-C | Scala | Rust | D

Tools and Protocols

Rest | SOAP | IntelliJ | HP Fortify | IBM AppScan | WireShark | BeEF | OSQuery | Nessus | Metasploit | Burp

Web Development

HTML | CSS | Javascript | Groovy|Grails | WebSockets

PRESENTATION

Scholarship for Service Alumni Panel | Washington DC | January 2017

Presented to students from 70 schools from across the country about the work experience

Fed Launch Bites | San Francisco | October 2016

Presented on the resources available to all System software application development shops.

TECHNICAL CERTIFICATION

Web Application Penetration Tester (GWAPT) | GIAC | 2017

Testing Web Application Security: Analyst Number 6245

Secure Software Programmer-Java (GSSP-JAVA) | GIAC | 2016

Developing and designing code securely in Java: Analyst Number 1622

Fortify Software Security | HPE | 2016

Certification in HP Fortify and Software Security

Security+ ce | CompTia | 2016

Successfully completed CompTIA certification for work. Verification Code: 66QWMK5GKL4EKQ3N