

ESD ID: ESD-16-1019

ESD Title: Software Engineer Level 4

Experience: 15 years, 11 years w/BS, 9 years w/MS

Clearance: TS/SCI w/FSP

Position: Cloud Capability Engineer

Position Specific Requirements:

- Primary skills: Design and develop custom components using Java. Create custom ETL and data transport processors. Move, transform, and wrap data using tools like Niagara Files (NiFi). Interact with corporate cloud resources via APIs. Create and update REST web services. Create modern web pages using JavaScript and open-source libraries such as AngularJS and JQuery.
- Secondary skills: Linux (intermediate), PHP, write and refactor SQL queries in PostgreSQL

Minimum Requirements:

- 15+ years in software development and maintenance (i.e. software requirements analysis, software design including object oriented analysis and design, coding, testing, documentation, configuration management, user training, deployment, and lifecycle maintenance)
- Documented formal training on the Software Engineering Institute (SEI) Capability Maturity Model Integration for Development (CMMI-DEV) Software model or documented experience working on projects and applied some portions of this model
- Documented formal training on DoD standards for software testing and documentation or documented experience working on projects that applied these standards
- 5+ years leading software development teams

Desired Requirements:

- Designing and developing multi-tier Java web applications
- Developing and validating user and system requirements, writing design documents, test plans and test results, and assessing architecture and current hardware limitations and recommending solutions
- Designing and developing software and/or multi-tier web applications using programming languages to include: Java/Java EE, Swing, Hibernate, Spring, Struts, JUnit, C, C++, C#, .NET, Java Script, ColdFusion, and Adobe Flex development tools
- Ability to develop and/or maintain software capabilities using C/C++ software development environment; Windows operating system internals, computer security, Win32 programming, Windows kernel programming, x86 assembly programming, COM programming, .NET programming, network programming (sockets), and software reverse engineering
- Knowledge in using SQL or PL/SQL to access Oracle, MySQL, or SQL Server databases
- Researching, selecting, and integrating, software frameworks (e.g. Ozone Widgets, Spring, Hibernate, Struts, and JUnit)
- Ability to assist others in the use of Java APIs such as JDBC, JPA, and EJB
- Ability to apply advanced principles, theories and concepts, such as Object Relational Mapping (ORM), Dependency Injection (DI), and Domain Driven Design
- Ability to contribute to database design and to generate SQL queries and stored procedures
- Ability to apply earned value techniques to software development, test, and maintenance efforts

- Working knowledge of and ability to assist others in the use of software engineering tools to support process improvement to include ClearCase/ClearQuest, MS Project/Primavera, Subversion, Doors, Mercurial and Minitab
- 6+ years in network analysis (data and protocols) and TCP/IP and UDP protocols
- 6+ years malware analysis and mitigation techniques
- Experience working with Scrum or other agile software development processes
- Ability to utilize Eclipse, Microsoft Visual Studio, the Windows Driver Development Kit, IdaPro, Windbg, SoftICE, OllyDbg, VMWare, and Subversion to develop and maintain software capabilities
- Experience developing network capabilities using U123/U127, SOTF, Packet Capture, and Protocol Processing
- Working knowledge of and ability to implement IPv6 protocols