Roles and Skill Sets for GE Microservices

**Microservices Architect**

**Responsibilities**

* Provide Cloud, Microservice, and Java design and development best practices
* Provide Subject Matter Expertise in Microservice development and deployment

**Resources by location**

* 1 Resource On-Site supported additionally from UST Cloud Architecture practices

**Skill Sets and Experience**

*Key role – master of everything*

* Must have minimum 10 years of IT experience
* Cloud Foundry expertise
* Expert level at Bounded Contexts
* Expert level Java EE. Java EE certification preferred
* Must be familiar with Python, PHP, HTML5, and AngularJS
* Expert level at modern software paradigm, e.g., single page applications
* Must have solid understanding of 12 factor principle and self-contained systems (SCS)
* Expert level DevOps Automation - automate continuous integration and enable continuous delivery - build/deployment automation
* Must be able to development reusable frameworks, components, and templates
* Must be able to recognize the structural and behavior patterns and have the judgment to apply the appropriate solution patterns
* Must be competent in agile development and team tools setup and configurations
* Define requirements/Acceptance Criteria definition & refinement for early sprints
* Identify development tools, standards, and guidelines
* Setup tools, assets, APIs repositories
* Must have great communication skills to all levels of stakeholders

**Technical Product Owner**

**Responsibilities**

* Iteration planning
* Manages and coordinates the backlog and implementation
* User Story elaboration

**Resources by location**

* 1 Resource On-Site

**Skill Sets and Experience**

* Must have 8-10 years IT experience
* Must have expert level knowledge of agile development
* Must have experience with Cloud Foundry, Java EE, DevOps, CI/CD
* Must be familiar with Python, PHP, HTML5, and AngularJS
* Must be a team builder and team enabler
* Must possess organizational dynamics awareness and be able to tackle challenging incidents gracefully
* Define requirements/Acceptance Criteria definitions & refinements
* Must be expert at user story elaborations
* Must have great communication skills to all levels of stakeholders

**Software Dev Engineers**

**Responsibilities**

* Develop defined Microservices
* Unit test developed Microservices
* Support QA

**Resources by location**

* 2-4 Software Development Engineers On-site

**Skill Sets and Experience**

* Must have 6-8 years IT experience
* Must have experience agile development
* Must have experience with Cloud Foundry, Java EE, DevOps, CI/CD
* Must be familiar with Python, PHP, HTML5, and AngularJS
* Must have a good understanding what are microservices, what problems do they solve, and what are the challenges with them
* Must be able to understand requirements and be able to deliver code consistent with requirements
* Must be competent in automated unit testing
* Must have good communication skills
* Must be a team player – willing to learn, teach, and share
* Must be enthusiastic and willing to jump out of comfort zone

**SDETS(QA Software Dev Engineers in Test)**

**Responsibilities**

* Functional test of Microservices in sprint
* Non-functional test of epic product

**Resources by location**

* 1-3 Quality Assurance Professionals On-site

**Skill Sets and Experience**

* Must have 6-8 years IT experience
* Must be able to validate software against specifications
* Must be able to setup test environment
* Must be able to setup configurations for various environments
* Must be able to create test scripts against specifications
* Must be able to produce test results
* Must be self-starter