



# JOB PROFILE

DEPARTMENT: SOLUTION ARCHITECTURE & PRODUCT DEVELOPMENT

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TITLE: Junior Solution Designer - Presales

## JOB PURPOSE:

The Junior Solutions Designer supports the development activities within the Solution Architecture and Product Development Department. The candidate should possess out of the box creativity, adequate research skills, strong technical expertise, additionally have exposure to a breadth of development technologies. The Junior Solution Designer will be responsible for developing operational prototypes, tools, scripts, operational software products for internal and external use. The Junior Solutions Designer is expected to be familiar with the Software Development Lifecycle and SOLID (single responsibility, open-closed, Liskov substitution, interface segregation and dependency inversion) development principles.

## MAIN DUTIES:

### Solution Architecture Function Support

- Prototype complex deliverables in the required solutions and contribute to coding as part of the development team when necessary
- Support Solution Architecture department through mock software that can be reviewed and assessed by current clients
- Assist in the architectural design and software design of the required solutions
- Develop tools to support internal and external clients
- Develop innovative technical solutions
- Develop prototypes to support proof of concepts.
- Develop operational software products
- Identify uncertainties associated with achieving requirements
- Hypothesize how to overcome obstacles
- Leverage proven software design and architectural patterns
- Participate in high level software design
- Provide guidance to the development team during the product development stage

### Key Performance Measures:

- Perform research to reduce technical uncertainties to an acceptable level by effectively using all available resources at your disposal
- Ability to overcome technical challenges and strong problem solving skills
- Ability to work independently as well as with team members to deliver specific responsibilities
- Timely delivery of high quality designs, Proof of Concepts and Prototypes that meet requirements
- Ability to follow-through ensuring thorough completion of assigned personal tasks with accountability to the team
- Effective programming skills are a must
- Ensuring on-going professional development
- A “think outside the box” type of developer
- Meet development deadlines

## EXPERIENCE AND EDUCATION:

The candidate must have a degree in computer science or equivalent and a minimum of 2 years of work experience in a software development environment. They must also be skilled in:

- C#, Java, Android Development, JavaScript, JQuery, HTML5
- Hardware Integrations

- .Net Framework 3.5 or greater
- Microsoft SQL Server
- Object Oriented Programming and Design Patterns
- UML (Unified Modeling Language)

Additional strong skills required in one or more of:

- C++, Java programming languages
- Windows Communication Foundation, Web API, ASP.NET Core, Windows Services
- Windows Workflow Foundation
- XML, XSLT, SOAP technology
- Web Technologies such as REST API's
- Strong integration design and development experience
- Possess advanced written and oral communication skills for producing software design specifications
- Experienced in developing and documenting use cases desired
- Knowledge of biometrics, RFIDs, Smart Cards and workflows is a plus
- Experience in a similar sector is a plus

#### CORE COMPETENCIES:

- Ability to apply knowledge and skills for the development of new solutions and resolve complex problems.
- Ability to perform research and experiment with new technologies.
- Ability to creatively think outside the box and develop new products and solutions.
- Ability to manage own workload and deliver prototypes in a timely manner.
- Ability to work within an agile project delivery process and assisting the solution Architecture Department

## REPORTS TO: Senior Solutions Designer - Presales