**Why a Bachelor level of education in a specific field of study is a prerequisite for entry into the proffered position:**

**(Introduction about employee)**

**Amit Prasad** is a B.TECH in Computer Science and PG-DAC from ACTS having 100+ months of experience in banking and finance domain and served organizations like Harman(former Symphony Teleca),IG and Wipro Ltd .He is a collaborative engineering professional with substantial experience in designing and executing solutions for complex business problems involving large scale data warehousing, real-time analytics and reporting solutions. Known for using the right tools when and where they make sense and creating an intuitive architecture that helps organizations effectively analyze and process terabytes of structured and unstructured data.

**Education: Mark sheets for each of 8 Semesters and Degree Attached**

Bachelor of Engineering (**4 years, 8 semesters Course**) in Computer Science and Engineering, 2001-2005.

**How Academic Background Helped:**

In 4 years (8 semesters) of Engineering, focus was not only on core Computer Science and Engineering subjects but in order to be flexible we were **also taught Mathematics, Physics and various Computer/IT/Machine Learning related subjects along with professional IT/Programming courses** at various phases which laid the foundation of my professional career in IT/Programming by helping him to understand:

1.JAVA

2.Artificial Intelligence|Nural Network.

3.MIS|Operation Research|Computer Networks.

4.Software Engineering |Compiler Design |Computer Graphics|Operating System.

5.Physics|Chemistry|Maths|Electrical|Basic Electronics|Data Structure.

**Below are the various subjects and courses Employee studied in his 4 years and 8 semesters of engineering which laid the foundation for his Professional career in IT/Programming:**

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| **Subject/Course Studied in Engineering/CDAC** | **Semester in which Studied** | **Importance of Course** |
| Engg. Chemistry , Engg. Physics , Engg. Maths-I  Communication Skill , Basic Electrical Engg, Computer Programming | 1 | Mandatory for all engineering branches . These subjects will make the base of an engineer . |
| Engg Chemistry , Basic Civil Engg, Engg Maths-II,  Basic Mechanical Engg. | 2 | Mandatory for all engineering branches . These subjects will make the base of an engineer . |
| Engg Maths-III , Computer Fundamental , Discrete Maths, Basic Electronics , Network Analysis and Synthesis | 3 | These subjects are specefic to computer science as to build base in computer engineering. |
| Engg Maths –IV, Object oriented programing in C++ , Data Structure, Analouge and digital circuits, Logic design and computer hardware | 4 | Mathematics is useful for decision-making processes or when a manufacturing group needs to determine the best alternative to solve a problem. For instance, mathematical theories and models such as the multi-attribute theory and the network flow model can help individuals assess how many products need to be manufactured at a particular point.  C++ is known to be a very powerful language. C++ allows you to have a lot of control as to how you use computer resources, so in the right hands its speed and ability to cheaply use resources should be able to surpass other languages.  Data Structure is process through which we can collect and organize data in best way as well as perform operation on that in most effective way. |
| System Programming , Computer oriented numerical methods , Microprocessors and Micro computer , Database and Management system , principle of communication system. | 5 | System programming is an essential and important foundation in any computer's application development, and always evolving to accommodate changes in the computer hardware. The system programming enhances or extends the functions of an operating system and may comprise components such as drivers, utilities and updates.  A database management system is important because it manages data efficiently and allows users to perform multiple tasks with ease. A database management system stores, organizes and manages a large amount of information within a single software application.  Importance of computer oriented numerical methods is Computing integrals and derivatives,Solving differential equations,Building models based on data, be it through interpolation, Least Square, or other methods,Root finding and numerical optimization,Estimating the solution to a set of linear and nonlinear equations |
| Software Engineering , Compiler design , Operating System , Computer Graphics , Computer system architecture | 6 | Software engineering is the study and application of engineering to the design, development, and maintenance of software.  Compilers provide you with the theoretical and practical knowledge that is needed to implement a programming language.  Operating system allows a computer's hardware components, including processors and drives, to communicate with its software components, such as applications and data instruction sets.  Knowledge of computer architecture is relevant to programming in any language, no matter how high level. These important principles include: Fundamental data structures like arrays and stacks.  Graphic has been always a preponderant part of daily life because it’s the way we represent ideas and spread them. Fix a thought, an ideology, a credo or anything that matters to someone and put it in a way that it could be spread in the word. |
| Management Information System , Operation research , Computer Networks , | 7 | Management Information Systems is of paramount importance to reach effective decisions in an organization.  Operations research is a quantitative approach that solves problems, using a number of mathematical techniques. It is helpful to use operations research when you're trying to make decisions but the conditions are uncertain, and when differing objectives are in conflict with each other.  Computer networks allow the user to access remote programs and remote databases either of the same organization or from other enterprises or public sources |
| Parallel Computing , AI and expert system , Neural Networking , Java Programming | 8 | Management Information Systems is of paramount importance to reach effective decisions in an organization.  Operations research is a quantitative approach that solves problems, using a number of mathematical techniques. It is helpful to use operations research when you're trying to make decisions but the conditions are uncertain, and when differing objectives are in conflict with each other.  Computer networks allow the user to access remote programs and remote databases either of the same organization or from other enterprises or public sources.  Parallel computing is nessesary for parallel execution of software to meet performance requirements.  Artificial Intelligence is the machines which are designed and programmed in such a manner that they and think and act like a human.  Artificial Intelligence becomes the important part of our daily life. Our life is changed by AI because this technology is used in a wide area of day to day services.  Neural networks are parallel and distributed information processing systems that are inspired and derived from biological learning systems such as human brains.  Java is one of the most popular programming languages used to create Web applications and platforms. It was designed for flexibility, allowing developers to write code that would run on any machine, regardless of architecture or platform. |
| Opearting system concepts , C++ and datastructure , J2SE Core Java , Windows programming using win32, Web Programming and XML, Sofwtare Engineering, Database technologies , J2EE-Enterprise Java , Microsoft .NET | CDAC | Focused trainning on vital tecnologies used in IT industry world wide. |

**Professional experience:**

* Expertise in Core Java.
* Good Experience in developing Scala spark application for the data analytics using spark core , spark sql and spark streaming
* Good experience in cloud Data Lake.
* Good experience in Amazon Web services. (EC2 S3 REDSHIFT )
* Good Experience in Developing Applications using Servlet and JDBC.
* Good Experience in Developing Applications using Spring & Hibernate Frameworks.
* Experience in Production Support and Release.
* Experience in maven for building of the application.
* Implementation knowledge of Multithreading and Concurrency.
* Implementation knowledge of Collection Framework.
* Implementation Knowledge of Spring cloud Framework.
* Implementation knowledge of Enterprise Service Bus.
* Knowledge of Web Services, Map reduce , Hive , Pig, JENKINS , GIT, Agile development.

**About Current Role:**

* Involve in Preparation, Reviewing , developing and Execution of development use cases.
* Involve in coding for the enhancement requirements and production defect fixes for the frameworks after analyzing the specifications and business requirements
* Performing End-to-End Testing of the Frameworks.
* Involve in requirement gathering and application designing.
* Involve in writing functional specification document.

**Key skills/ Tool required for the job are:**

* Core Java|Spring|AWS|Kafka|Spark|Redis|Hadoop eco System|Snowflake|scala|python|Unix|Spring cloud|Hibernate

**Responsibilities:**

* Understanding the business requirements and functional specifications of the client module
* Contribute to the design of Big Data architecture.
* Maintain contacts with customer leaders and analyse requirements and service quality and sort out any relevant issues.
* Develope and support various business application using JAVA , SPRING, PYTHON , SCALA , UNIX and Big Data Technologies like SPARK , AWS , KAFKA ,HADOOP etc.
* Perform Unit Testing and support integration , User acceptance testing .
* Deploy newly developed application into DEV/QA and PROD regions.
* Support bug fixes and other technical issues.
* Coordinate between onshore and offshore team for seamless project delivery.
* Guide team members in development , deployment and testing of Big Data applications.
* As point of contact for the offshore team , will have daily meetings with the offshore team members to understand and clarify their doubts.
* Will share the technical requirements with the offshore team members , where ever applicable and explain the functional and non functional requirements of the project.
* Identify the process gaps and provide alternatives to the project team.
* Generating proxies and buddy testing and peer code review.
* Build functional specification and develop technical specification and functional and technical specification review.
* Write stored procedures , development of database scripts , triggering , review test cases , test procedures , unit / regression / integration testing of converted load module.
* Identify customer’s business flow and gap analysis, provide recommendations in key strategic areas involving competitor performance.
* Prepare design documents, design patterns, prepare component design specification / feature design specification and time estimation.
* Develop enhancements, system documentation, and production support and implement procedures for quality improvement and development.
* Implement exception handling, Develop code for data access and designing of user interface.
* Identify customer’s business flow and gap analysis, provide recommendations in key strategic areas involving competitor performance.

**How education and Experience helping you to perform proffered position/ current Role.**

**Amit Prasad** is B.tech in computer science and his profile holds all nieche tecnologies which is best suited for current role as well as for proffered position .Since he has 100+ months of IT experience in java/j2ee including 36 months of Big Data experience (aws,spark,kafka,redis,hadoop,java/j2ee)in BFSI domain ,it makes his profile best suited to take up any challenging role.

Sincerely,

**Dibyaranjan Dalai**

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