

**Brac University (BracU)**  
**Job Description**

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**Job Title:** Principal Software Engineer/Architect

**Position Purpose**

As the Principal Software Engineer/Architect you will play a critical role in designing, developing, and implementing cutting-edge software solutions. You will lead architectural discussions, provide technical guidance to the engineering team, and drive innovation to meet our University's goals and objectives. In addition, you will be responsible for managing and integration of various software and infrastructure and ensuring the IT best practices.

**Organizational Relationships**

<b>Position type:</b>	Fixed Term Employment Contract/Regular
<b>Reporting to:</b>	Director, IT Systems
<b>Staff Responsible to you:</b>	Management, Faculty members, Research and Administrative Staff
<b>Hours of work:</b>	Hours required to do the job. May be required to work days, evenings, weekends and public holidays.

**Functional Relationships:**

**1. Internal Contacts:** Senior Leadership team members, Deans and Academic colleagues within the University structure.

**2. External Contact:** Government and intergovernmental agencies, international academic/ non-academic/ IT based institutions, industry partners, alumni

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**Specific Duties & Responsibilities**

**Key Accountabilities:**

- Lead the design and development of scalable and high-performance software systems
- Oversee and manage the Technical UAT of software engineering projects and Technical Integration of various business applications
- Guide SRS to Prototype/Final Development for In-house and out-sourced development projects
- Define architectural standards and best practices to ensure code quality, maintainability, and scalability
- Collaborate with cross-functional teams to gather requirements, identify technical solutions, and prioritize tasks
- Provide technical leadership and mentorship to junior engineers, fostering a culture of continuous learning and improvement
- Evaluate emerging technologies and industry trends to drive innovation and enhance our product offerings
- Build Backoffice Automation Tools/Applications for business process improvement
- Participate in code reviews, architecture reviews, and technical discussions to maintain a high level of quality and consistency across projects
- Troubleshoot complex technical issues and provide timely resolutions to ensure smooth project delivery
- Communicate effectively with stakeholders to provide project updates, gather feedback, and address concerns
- Maintain, upgrade, and improve the performance and security of existing software

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**General Responsibility**

The general duties and responsibilities of a Principal Software Engineer/Architect in the University are:

- **Administrative Duties** relating to all matters that the membership of a University entails, including cross functional activities.
- **General Responsibility** to undertake any other duties as directed by the Supervisor. Protect the reputation of the University at all times by maintaining confidentiality and Professionalism.

**Qualifications**

- Minimum, a bachelor degree in computer science from any reputed public/private university
- Ideally, a masters in Computer Science or an MBA from some reputed public/private university

**Knowledge, Skills and Experience**

- Minimum 10 years of experience in the software development industry, with:
  - Minimum 4 years of experience as a software developer
  - Minimum 2 years of experience as a software development team lead in any form
  - Requirement Analysis, Design and Architecting Experience in several software development projects, and
  - Database schema design and enhancement experience in multiple projects
- Certification in the following areas are preferred:
  - Application and Network Security
  - Computer Networks
  - Distributed and Client-server Systems
  - Databases, and
  - Operating Systems
- Familiarity with project planning, issue tracking, repository management, and integration & testing tools
- Experience with deployment management in cloud infrastructures
- Familiarity with software UAT and QA process, and
- Experience in technical writing

**Certification**

I certify that I have read and understand the responsibilities assigned to this position.

Employee Signature

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**Employee**

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**Date**