

## Job Description

**Job title: Solution Architect**

**Team:** Technology & Data

**Reports to: Technology Director**

**Location: Gateshead / Remote**

**Job purpose:** The Solution Architect is the principal technical role in leading software development within Bloom. They are responsible for making architecture and design choices across applications and within modules; and for setting technical standards for all internal and partner software development. They work closely with the Product Owner, Technology Director and UX/UI Specialist to form the leadership group for product development reporting to the Programme Board.

**Key accountabilities:**

- Owns the technology stack and is a key decision maker in shaping and defining architecture choices across applications.
- Ensures that detailed architecture designs meet the current and future non-functional needs of the business with a focus on achieving the strategic technical aims of the business around scalability, automation, and customer experience.
- Overall software architecture of the Bloom Technology Platform
- Ensure the technology stack meets security requirements including OWASP standards and that future application design and development considers and ensures security robustness at all levels.
- Ensures coding standards are met and approaches are adhered to consistently across the relevant teams.
- The assessment and evaluation of third party / open-source software for suitability and compatibility of integrating into Bloom application stack
- Providing high level technical and functional documentation for applications and modules
- Technical stewardship of development and deployment strategy ensuring quality standards and best practise are applied and met across delivery cycles.
- Constantly reviews technology and application stack to identify flaws, areas for improvement and drives continuous evolution to meet the needs of the business and its customers.

**Skills, know-how and experience:**

**Must have:**

- Current or recent experience in a similar role
- Broad and extensive knowledge of software development in an Agile environment
- Knowledge of architectural styles and design patterns,
- AWS and serverless architecture
- Deep understanding of a wide range of cloud and coding practices e.g., handling state persistence, startup latency, clean code, YAGNI, DRY, unit testing, refactoring
- Deep understanding of common cloud languages e.g. more than one of Node, JavaScript, Python, Go, .NET, Java & other JVM languages
- Data modelling and database design experience
- Worked with customer facing B2B/B2C web applications.
- Cloud/API-based application architecture
- Stakeholder management
- Effective communication of technical concepts and designs through documentation, high-level presentation and verbally

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- Working with the Bloom Programme Manager, plays the lead technical role in collaborating with and providing direction to external software development partners

### Preferred/Desirable:

- Prior experience of:
  - Procurement / Sourcing Software
  - Greenfield cloud application development projects
  - DevOps
  - Pair/mob programming
  - Managing external development partners

### Technical / professional qualifications:

- Computer Science degree/masters
- Relevant cloud certifications

### Key performance indicators: (max. 5)

- Fully documented architecture designs for new applications
- Applications are fit-for-purpose and performant
- Development-to-deployment pipeline is automated

### Direct reports:

- None

*This Job Description is not definitive and outlines key accountabilities – colleagues are expected to be flexible regarding their accountabilities and will from time to time be asked to carry out other duties.*