

## Job Description

<b>Name:</b>	
<b>Title:</b> Lead Developer and DevOps Engineer	<b>Department:</b> Product and Content Development (Educational Software)
<b>Reporting to:</b> Software Development Manager	<b>Grade:</b> 3
<p><b>Job purpose:</b> As a lead developer you will be an experienced senior full stack engineer with experience managing a team in the development of a commercial software product. As a DevOps engineer you will build and maintain our cloud infrastructure, deployment pipelines and containerised environments. This role combines strategic leadership with hand-on technical development. You will mentor developers, shape technical direction, architect solutions and maintain best practice in order that our software is secure, performant, and supports business priorities.</p> <p><b>Job responsibilities:</b></p> <p><b>1. Lead Technical development</b></p> <ol style="list-style-type: none"> <li>a. Define and lead the strategic design of code bases; defining high-level structures and architecture patterns including:             <ol style="list-style-type: none"> <li>i. Setting architectural standards</li> <li>ii. Reviewing designs</li> <li>iii. Resolving cross-team technical disagreements</li> <li>iv. Creating technical roadmaps</li> </ol> </li> <li>b. Own and manage technical risk in data, code and architecture including:             <ol style="list-style-type: none"> <li>i. Single points of failure</li> <li>ii. Scalability</li> <li>iii. Security vulnerabilities</li> <li>iv. Excessive technical debt</li> <li>v. Data integrity</li> </ol> </li> <li>c. Accountable for key technical decisions including:             <ol style="list-style-type: none"> <li>i. Technology stack selection,</li> <li>ii. Cloud and infrastructure strategy</li> <li>iii. Data architecture</li> <li>iv. Integration patterns for disparate systems</li> <li>v. Security</li> </ol> </li> <li>d. Lead cross departmental teams in backlog refinement, breaking down user stories into vertically sliced layers</li> <li>e. Conduct code reviews and maintain high code quality standards</li> <li>f. Make the key technical decisions and establish best practice</li> <li>g. Mentor and coach a team of software developers</li> </ol> <p><b>2. Full stack development</b></p> <ol style="list-style-type: none"> <li>a. Design, build and maintain scalable web applications</li> <li>b. Develop high-quality frontend interfaces</li> <li>c. Collaborate with UI/UX and designers to produce high-quality user experiences</li> <li>d. Design, build and maintain RESTful APIs</li> <li>e. Integrate third-party services and internal systems to support customer journey</li> </ol>	

## Job Description

### 3. Database Management

- a. Lead responsible for the Design of both SQL and NoSQL databases
- b. Responsible for strategies to improve database performance and scalability
- c. Oversea the creation of efficient and performant queries to retrieve and store data

### 4. Project delivery

- a. Work closely with the Software Development Manager and other senior managers to translate stakeholder requirements into commercially viable technical solutions that support business growth
- b. Lead teams in Scrum meetings such as planning, stand-ups and retrospectives to ensure good productivity
- c. Remove any technical blockers that hinder the team's progress
- d. Demonstrate overall product state to the Software Development Manager

### 5. DevOps infrastructure and pipeline

- a. Build, manage and maintain a CI/CD pipeline to automate the build, test, and deployment of software
- b. Deploy and manage Docker containers and Kubernetes clusters
- c. Incorporate security measures into the development lifecycle
- d. Provision and manage Azure cloud infrastructure
- e. Monitor application performance, system health and create alerts for proactive troubleshooting

### 6. General

- a. Understand and be committed to the Ascentis Vision
- b. Work hard and flexibly to achieve your targets and those of the Company and always be positive
- c. Actively support a problem-solving culture within your team by seeking to remove barriers that stand in the way of achieving our targets
- d. Work flexibly to meet the needs of our customers
- e. Implement strategies to achieve continuous improvement in your own performance

### Success Measures

- Successful completion of features
- System availability and uptime
- Team engagement
- Product stakeholder satisfaction
- Delivery predictability
- Architecture quality and scalability
- Security and compliance
- Maintainability of codebase

### Status of this Job Description

The above job description is a guide to the work you may be required to undertake but does not form part of your contract of employment and may change from time to time to reflect changing circumstances.

### Accountability

Software Development Manager, Commercial Director and Chief Executive Officer

### Key Contacts

Staff at all levels in Ascentis

External suppliers and contractors

## Job Description

**Person Specification:**

Key Attributes (E-Essential)

**Qualifications:**

1. Bachelor's or master's degree in computer science, Engineering, or related field (E)
2. Experience in a similar role (E)

**Skills and Experience:**

1. Technical leadership and decision making (E)
2. Team mentoring and coaching (E)
3. Agile and Scrum leadership (E)
4. Translating business requirements into technical solutions (E)
5. Designing scalable, resilient, and secure systems (E)
6. Microservices and distributed architectures (E)
7. Azure Cloud architecture (E)
8. API design and integration (E)
9. Containerisation and Orchestration using Docker and Kubernetes (E)
10. DevOps practices and CI/CD pipelines (E)
11. Angular JavaScript framework (E)
12. Data architecture and database design (E)