Cloud Computing

Job Description:

Design, implement, and manage cloud-based systems for businesses. Ensure high availability, scalability, and security of cloud services. Work with AWS, Azure, GCP, and CI/CD tools.

Technical Interview Questions:

- Explain the difference between IaaS, PaaS, and SaaS.

- How does load balancing work in cloud environments?

- What are the advantages of using container orchestration tools like Kubernetes?

HR Interview Questions:

- Why do you want to work in cloud computing?

- Tell me about a time you handled a production incident.

Web Development (MERN and MEAN)

Job Description:

Develop full-stack web applications using MongoDB, Express.js, React/Angular, and Node.js. Implement REST APIs, handle frontend logic, and manage state with Redux or RxJS.

Technical Interview Questions:

- What is the virtual DOM and how does React use it?

- How do you secure a REST API in Node.js?

- Compare MongoDB with SQL databases.

HR Interview Questions:

- Tell me about your favorite web project and why.

- How do you stay updated with web technologies?

Application Development (Android/iOS)

Job Description:

Design and build mobile applications for Android and iOS platforms. Work with Kotlin, Swift, Flutter, or React Native. Optimize performance and ensure seamless UX across devices.

Technical Interview Questions:

- What are the lifecycle methods in Android?

- How does Swift handle memory management?

- Explain the difference between native and hybrid apps.

HR Interview Questions:

- Describe a challenge you faced in app development.

- What's your approach to UI/UX in mobile apps?

Data Analysis

Job Description:

Analyze datasets to extract insights, build reports, and support decision-making. Use tools like Python, SQL, Excel, and visualization tools like Power BI or Tableau.

Technical Interview Questions:

- What is the difference between supervised and unsupervised learning?

- How would you handle missing data in a dataset?

- Explain a real-life case where data analysis impacted business decisions.

HR Interview Questions:

- How do you communicate technical insights to non-technical stakeholders?

- Tell me about a time you worked on a tight deadline.

Cybersecurity

Job Description:

Protect organizational systems from cyber threats. Conduct vulnerability assessments, monitor security logs, implement firewalls, and ensure compliance with policies.

Technical Interview Questions:

- What is the difference between IDS and IPS?

- How do you secure an API?

- Explain common OWASP top 10 vulnerabilities.

HR Interview Questions:

- Why did you choose a career in cybersecurity?

- Describe a situation where you prevented a potential threat.

AI/ML

Job Description:

Build and deploy machine learning models for predictive analytics. Work with Python, scikit-learn, TensorFlow, and cloud ML platforms. Preprocess data and evaluate model performance.

Technical Interview Questions:

- What's the difference between overfitting and underfitting?

- How do you evaluate a classification model?

- What is the role of feature engineering?

HR Interview Questions:

- Tell me about an ML project you're proud of.

- How do you explain AI concepts to someone unfamiliar with the field?

DevOps

Job Description:

Bridge development and operations teams by automating pipelines and deployments. Work with Docker, Jenkins, GitHub Actions, Kubernetes, and monitoring tools like Prometheus or Grafana.

Technical Interview Questions:

- What is CI/CD and why is it important?

- How do containers differ from virtual machines?

- Explain the DevOps lifecycle.

HR Interview Questions:

- How do you handle deployment failures?

- Describe a successful automation you implemented.