

Interview Questions to Ask a Software Engineer

Introduction (welcoming / explaining your project / explaining your needs ...)

Question #1: Discuss one of your previous projects and explain how you completed it successfully.

Question #2: Did you run into any obstacles with your project and how did you handle the issue?

Question #3: Do you follow the Agile software development process?

Question #4: What do you know about multi-threading?

Multi-threading is a way to improve the performance of an application. Multi-threading is a process that uses several processors to run snippets of code. It improves performance and stops code from "hanging" when it runs.

Question #5: What are your thoughts on unit testing?

Unit testing and test driven development (TDD) are often regarded as best practices in software development and code maintenance. Unit testing is an extra set of code that tests various methods and procedures for logic errors and coding flaws. This helps eliminate many of the bugs that could be promoted to production.

Question #6: What is MVC?

MVC stands for Model-View-Controller. It's a way to separate code into its own compartments, typically like so:

- **Model** is the data layer that manages business logic and maintains data
- **View** is the front-end presentation layer, or UI layer
- **Controller** is the logic layer that handles user requests and behavior, and updates the Model

Question #7: How familiar are you with OOP analysis and design?

Question #8: How do you organize your class modules and assets?

Question #9: What do you know about ORM?

Object-relational mapping (ORM) is a way to use software code so it can map to database tables. This technique turns tables into their own classes, so then developers can use those classes for LINQ queries. The candidate might mention Hibernate, which is one of the most common ORM frameworks.

Question #10: What is your process for finding a bug in an application? How much time do you typically spend on debugging?

Concluding (giving feedback / thanking / ...)