What Makes a Good Developer

By Thomas Dunlap - Engagement Director - TCS

Programming language knowledge
- Ability to write high-quality code
- Unit testing your own code
- Writing self-testing code
- Writing well documented code
- Writing YAML documents, for APIs

Automating system/ integration testing
- Automated regression testing
- Gherkin

Knowledge of CICD/ code orchestration
- Familiarity with services like Jenkins that allow you to apply code to Production environments in real-time
- Familiarity with rolling-back releases
- Familiarity with A/B testing, using different Production environments.

Ability to read, write and speak English, fluently.

Database knowledge
- How to design databases
- How to query them

Infrastructure knowledge
- How to navigate/ operate AWS, Azure, etc.
- Configuring servers, to execute code.
- Creating databases
- Creating APIs
- Using serverless code services, like Lambda

Industry knowledge

Consulting skills
- Soft skills, such as drawing requirements out of a client.
- Ability to write requirements.
- Ability to document what work has been done, in response to a requirement (release notes)
- Ability to facilitate meetings.
- Ability to pushback against unreasonable requirements
- Be comfortable asking clarifying questions/ making suggestions.
- Ability to design solutions, in response to client requirements.

Experience operating in an agile environment.
- Knowledge of agile and scrum
- Knowledge of Scale Agile for Enterprises
- Experience developing iteratively.

Ability to work in a team.

Experience using a code repository tool, like GitHub.

Experience using a work management tool, like Atlassian.
- Backlogs
- Kanban boards

Information security
- Common application development mistakes to avoid.
- OAuth

Application version/ release management

Use of third-party libraries
- How to avoid malicious code inadvertently making it into your code

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