

Recommended Skills and Knowledge for Software Engineers

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Goal

- To propose that computer science and software engineering are distinct but related subjects
- To clearly define the relationship between computer science and software engineering
- To recommend a set of skills and knowledge that could serve to distinguish proficient software engineers

Definitions

Science –

a department of systematized knowledge as an object of study; a system of knowledge covering general truths or the operation of general laws esp. as obtained and tested through scientific method

Engineering –

... the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind