

[Download free pdf] Essential Software Architecture

Essential Software Architecture

Ian Gorton

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Ian Gorton : Essential Software Architecture before purchasing it in order to gage whether or not it would be worth my time, and all praised Essential Software Architecture:

2 of 3 people found the following review helpful. A nice reference for the SW architectBy Kratos_86In general, the book is very nice if you're a bit lost about what a SW architect should be. In my case, I was really curious about the job of SW architect, and this book answered many of my questions during the first chapters and specially thanks to the case study presented in the book. There are other aspects that could be improved or more deeply explained, such as Aspect-Oriented Programming or Model-Driven Development. I guess that they're not so practically covered because

they're emerging approaches more used in academia than in industry. However, the part of middleware, one of the most complex pieces of SW (and widely used in almost any application nowadays), is fully explained with lots of examples. I really enjoyed reading the book and I think I learned lots of stuff. Maybe it's not the book for a SW architect with years of experience, but yes for those who expect to become one, or who want to know more about the tasks to be done by this role.

Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architect" is one of the most overused and least understood terms in professional software development. Gorton's book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

From the reviews of the second edition: Choice - Outstanding Academic Title in 2012 "The volume is organized in three main parts, the first of which provides a comprehensive but clear definition of software architecture. The second and third parts are devoted to current and emerging practices, respectively. This book will be of great help to students of computer science or software engineering, but above all it will provide practitioners with a guide to architecture that they can adopt to help direct their careers and professional development. Summing Up: Highly recommended. Upper-division undergraduates and above." (L. Benedicenti, Choice, Vol. 49 (5), January, 2012) "A subset of the software system architecture discipline is discussed in this book. Gorton begins with an overall description of what he calls 'the subdiscipline known as software architecture' useful in the technical library of a large financial institution for those engaged in major systems development and evolution." (Mordechai Ben-Menachem, ACM Computing Surveys, January, 2012) From the Back Cover Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architect" is one of the most overused and least understood terms in professional software development. Gorton's book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you. About the Author Ian Gorton is a Laboratory Fellow at the Pacific Northwest National Lab in Washington State, USA. He leads multiple projects that create advanced tools and reusable architectures for use in scientific and data analysis applications. Prior to this, he was a member of the Empirical Software Engineering group at National ICT Australia (NICTA), based in Sydney, Australia. In over 20 years of experience, Ian has worked in both academia and industry, and held various senior positions, including Chief Architect, in Government research labs in Australia and the USA. He has also consulted to major organizations including Fujitsu, Borland, the Australian Stock Exchange, IBM and the Australian Tax office, and served as Program Chair for both WICSA and COMPARCH, the two leading international conferences in Software Architecture. "I'm basically a software {architect, researcher, engineer}. I work on a whole range of projects, including new middleware technology RD, designing architectures for enterprise applications, and carrying out software architecture research. I guess I must enjoy the variety!"