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Beautiful Architecture: Leading Thinkers Reveal the Hidden Beauty in Software Design (Paperback)

By Diomidis Spinellis, Georgios Gousios

O'Reilly Media, Inc, USA, United States, 2009. Paperback. Condition: New. Language: English . Brand New Book. What are the ingredients of robust, elegant, flexible, and maintainable software architecture? Beautiful Architecture seeks to answer this question with a collection of intriguing essays from more than a dozen of today's leading software designers and architects. In each essay, one or two contributors present a favorite piece of software architecture, and analyze what makes it innovative and ideal for its purpose. Some of the engineers in this book reveal how they developed a specific project, including the decisions they faced and the trade-offs they made, while others take a step back to investigate the impact certain architectural aspects have had on computing as a whole. Topics include: Facebook's architecture as the basis for a data-centric application ecosystem; The magic behind the Jikes RVM self-optimizable, self-hosting runtime for a high-level language; Differences and similarities between object-oriented and functional architectural analysis; How architectures can affect system evolution and developer engagement; The effect of Xen's well-designed architecture on the way operating systems evolve; Design choices and building blocks that made Tandem the platform of choice in high-availability environments for over two decades;...



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