

The book cover features a dark blue background. The top half has a glowing, translucent blue chain link that loops across the frame. A vertical yellow bar is on the left side, partially overlapping the top half. The authors' names are in white text on the top left.

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Architecture for Blockchain Applications

 Springer

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This book addresses what software architects and developers need to know to be able to build applications based on blockchain technology, by offering an architectural view of software systems that produce beneficial usage of blockchains. An epilogue summarizes the reserve and speculates on the part blockchain and its applications can play later on. It also serves as a reference on blockchain style patterns and design analysis, and identifies practical examples of blockchain-based applications. It also provides students and researchers not used to this field an introduction to the hot topic. Component II targets the functional aspects of software architecture, describing the primary roles blockchain can play in an architecture, as well as its potential suitability and style process. It offers a catalogue of 15 design patterns and details how to use model-powered engineering to build blockchain-based applications. Part III covers the nonfunctional areas of blockchain applications, which are cross-cutting concerns including price, performance, protection, and availability. This book focusses on the bigger picture for blockchain, covering the concepts and technical It offers help with assessing the suitability of blockchain, on the functions blockchain can play in an architecture, on designing blockchain applications, and on assessing different architecture styles and tradeoffs. Part IV after that presents three comprehensive real-world use cases, offering additional insights from a useful perspective. factors in the design of blockchain-based applications. The use of mathematical formulas is bound to where they are crucial. This book is mainly intended for developers, software program architects and chief info officers who have to understand the basic technology, equipment and methodologies to build blockchain applications. The book is split into four parts: Part I offers a general introduction to the topic also to existing blockchain platforms including Bitcoin, Ethereum, and Hyperledger Fabric, and offers examples of blockchain-based applications.



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