Mastering Cloud Computing: Foundations and Applications Programming

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Mastering Cloud Computing is designed for undergraduate students learning to develop cloud computing applications. Tomorrow's applications won't live on a single computer but will be deployed from and reside on a virtual server, accessible anywhere, any time. Tomorrow's application developers need to understand the requirements of building apps for these virtual systems, including concurrent programming, high-performance computing, and data-intensive systems.

The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization, thread programming, task programming, and map-reduce programming. There are examples demonstrating all of these and more, with exercises and labs throughout.

- Explains how to make design choices and tradeoffs to consider when building applications to run in a virtual cloud environment
- Real-world case studies include scientific, business, and energy-efficiency considerations

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