



# Designing Software Architectures: A Practical Approach (SEI Series in Software Engineering)

By Humberto Cervantes, Rick Kazman

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- Understanding what architecture design involves, and where it fits in the full software development life cycle
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- Understanding how to perform the steps of the ADD method
- Scaling design and analysis up or down, including design for pre-sale processes or lightweight architecture reviews
- Recognizing and optimizing critical relationships between analysis and design
- Utilizing proven, reusable design primitives and adapting them to specific problems and contexts
- Solving design problems in new domains, such as cloud, mobile, or big data

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### Editorial Review

#### About the Author

**Humberto Cervantes** is a professor at Universidad Autónoma Metropolitana Iztapalapa in Mexico City. His primary research interest is software architecture and, more specifically, the development of methods and tools to aid in the design process. He is active in promoting the adoption of these methods and tools in the software industry. Since 2006, Cervantes has been a consultant for software development companies in topics related to software architecture. He has authored numerous research papers and popularization articles, and has also coauthored one of the few books in Spanish on the topic of software architecture. Cervantes received a master's degree and a Ph.D. from Université Joseph Fourier in Grenoble, France. He holds the Software Architecture Professional and ATAM Evaluator certificates from the SEI.

**Rick Kazman** is a professor at the University of Hawaii and a principal researcher at the Software Engineering Institute of Carnegie Mellon University. His primary research interests are software architecture, design and analysis tools, software visualization, and software engineering economics. Kazman has created several highly influential methods and tools for architecture analysis, including the SAAM (Software Architecture Analysis Method), the ATAM (Architecture Tradeoff Analysis Method), the CBAM (Cost-Benefit Analysis Method), and the Dali and Titan tools. He is the author of more than one hundred fifty peer-reviewed papers, and is coauthor of several books, including *Software Architecture in Practice, Third Edition* (Addison-Wesley, 2013), *Evaluating Software Architectures* (Addison-Wesley, 2002), and *Ultra-Large-Scale Systems*. Kazman received a B.A. (English/music) and M.Math (computer science) from the University of Waterloo, an M.A. (English) from York University, and a Ph.D. (computational linguistics) from Carnegie Mellon University.

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