Engineering Software as a Service: An Agile Approach Using Cloud Computing

By Armando Fox, David Patterson

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Awarded "Most Promising New Textbook" for 2016 by the Textbook & Academic Authors Association

A one-semester college course in software engineering focusing on cloud computing, software as a service (SaaS), and Agile development using Extreme Programming (XP). This book is neither a step-by-step tutorial nor a reference book. Instead, our goal is to bring a diverse set of software engineering topics together into a single narrative, help readers understand the most important ideas through concrete examples and a learn-by-doing approach, and teach readers enough about each topic to get them started in the field. Courseware for doing the work in the book is available as a virtual machine image that can be downloaded or deployed in the cloud. A free MOOC (massively open online course) at saas-class.org follows the book's content and adds programming assignments and quizzes. See saasbook.info for details.

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Review
"It is a pleasure to see a student text that emphasizes the production of real useful software." --Frederick P. Brooks Jr., author of *The Mythical Man-Month* and winner of the Turing Award

"I'd be far more likely to prefer graduates of this program than any other I've seen." --Brad Green, Engineering Manager, Google Inc.

About the Author
Armando Fox is a Professor at UC Berkeley, the faculty advisor to the UC Berkeley MOOCLab, and the winner of the 2015 Karl V. Karlstrom Outstanding Educator award from the Association for Computing Machinery. During his previous time at Stanford, he received teaching and mentoring awards from the Associated Students of Stanford University, the Society of Women Engineers, and Tau Beta Pi Engineering Honor Society. He was named one of the "Scientific American 50" in 2003 and is the recipient of an NSF CAREER award and the Gilbreth Lectureship of the National Academy of Engineering. In previous lives he helped design the Intel Pentium Pro microprocessor and founded a successful startup to commercialize his UC Berkeley dissertation research on mobile computing. He received his other degrees in electrical engineering and computer science from MIT and the University of Illinois and is an ACM Distinguished Member. David Patterson is the Pardee Professor of Computer Science at UC Berkeley and is currently Director of the Parallel Computing Lab. In the past, he served as Chair of Berkeley's CS Division, Chair of the CRA, and President of the ACM. His best-known research projects are Reduced Instruction Set Computers (RISC), Redundant Arrays of Inexpensive Disks (RAID), and Network of Workstations (NOW). This research led to many papers, 5 books, and about 30 of honors, including election to the National Academy of Engineering, the National Academy of Sciences, the Silicon Valley Engineering Hall of Fame, and Fellow of the Computer History Museum. His teaching awards include the Distinguished Teaching Award (UC Berkeley), the Karlstrom Outstanding Educator Award (ACM), the Mulligan Education Medal (IEEE), and the Undergraduate Teaching Award (IEEE). He received all his degrees from UCLA.

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