grokking algorithms

An *illustrated* guide for programmers and other curious people

Aditya Y. Bhargava

MANNING
SHELTER ISLAND

For online information and ordering of this and other Manning books, please visit www.manning.com. The publisher offers discounts on this book when ordered in quantity. For more information, please contact

Special Sales Department
Manning Publications Co.
20 Baldwin Road, PO Box 761
Shelter Island, NY 11964
Email: orders@manning.com

Manning Publications Co.
20 Baldwin Road
Shelter Island, NY 11964

Development editor: Jennifer Stout
Technical development editor: Damien White
Project manager: Tiffany Taylor
Copyeditor: Tiffany Taylor
Technical proofreader: Jean-François Morin
Typesetter: Leslie Haimes
Cover and interior design: Leslie Haimes
Illustrations by the author

ISBN: 9781617292231
Printed in the United States of America
1 2 3 4 5 6 7 8 9 10 – EBM – 21 20 19 18 17 16

For my parents, Sangeeta and Yogesh

contents