

# Index

## A

ActiveRecord, 73  
 Advice, 177, 178  
 Assuming negative intent, 88, 89  
 Automate business processes, 110  
 Automated testing, 65–67  
 awk, 57

## B

Benchmarking, 71, 72  
 Big O notation, 131  
 Bizarre function, 59  
 Blogging
 

- benefits, 47
- commit to writing, 48
- feedback, 49
- like-minded interests, 47
- ongoing curiosity, 47
- online communities, 49
- plan, 50
- start, 47
- visitors and posts, 48

 Board of advisors, 208, 209  
 Books, software, 142  
 Bootstrapped business,
 

- building, 117, 119

 Brag document, 185, 186  
 Businesses

bootstrapped business building,
 

- guidelines, 117, 119

 constraints and invisible structures, 105  
 developers fit, 114–116  
 goals and methods, 106  
 hammer, 116, 117  
 learn from customers, 119–121  
 no company is a monolith, 113, 114  
 outcomes over output, 108, 109  
 process crystallization, 109, 110  
 software is about people, 106, 107  
 spend money to make money, 110, 111  
 writing code, 107

Business model, 111–113  
 Business problems solving, 77, 79  
 Business process, selling custom software, 109

## C

Career
 

- adaptable and authentic, 186
- advice, 177, 178
- brag document, writing, 185, 186
- contracting, 192, 193
- engineering management, 193–195
- layoff, 188–190
- learning over earning, 161, 162
- LinkedIn profile, setting up, 191, 192
- management
  - communication, 180
  - knowledge, 179
  - progress, 180, 181

**Career** (*cont.*)

- one to ones management, 182–185
- potential vs. delivery, 174, 175
- recruiting event (see Recruiting event)
- runway, 181, 182
- small consulting company, 173, 174
- solution to FizzBuzz, 172
- won't want to code, living, 195, 196
- work-life balance, 175–177
- work remotely, 187, 188

Chat systems, 36, 38, 39

Cloud computing, 127

Code reading, 80–82

Coding, 80

Command-line interface (CLI), 54–56

Comma-separated variables (CSV), 56

Comments in code, 42

Commonplace technology, 17

**Community**

- conversational hooks, 201, 202
- DAILY mantras, 207
- meetups, 200, 201
- online tech, 202–204
- personal board of advisors, 208, 209
- work, 205, 206
- you get what you give, 204, 205

Community-supported codebases  
augmenting standard libraries, 64

Compound interest, 11

Comprehensive R Archive Network  
(CRAN), 64

Consistency is key, 101, 102

Constraints, 95

Consulting companies, 115

Consulting shops, 173

Context, 61

Continuous integration/continuous  
deployment platforms, 127

Contracting, 192, 193

Conversation, 143, 170, 201, 202

Cross-Origin Resource Sharing (CORS), 67

Custom code, 77

Customer feedback, 120

Customer service, 121

**D**

Database-driven web application, 100

Debuggers, 70, 71

Debug systems, 85–87

Dependency management tool, 134

Design trade-offs, 27

Developer documentation, 41–43

DevOps automation, 125

Documentation, 42

Domain knowledge, 131

**E**

Email communication, 36, 37

Email newsletters, 140

Empathy, 94

Employer/employee relationship, 165

Engineering management, 193–195

**Estimation**

- feedback, 84
- forced to plan, 83
- opportunity cost, 82
- practices, 83
- process, 83, 84
- scheduling, 83
- task, 84

Expert beginner, 132–134

**Expert intuition**

- frequent feedback, 127
- opportunity to learn, 127
- regular world, 126
- time taken, 128

Express gratitude, 89, 90

**F**

Face-to-face interaction, 169

Failures, 147, 148, 152

**First month**

- adults in room, 1, 2
- job in excel, 7, 8
- learning team members and dynamics, 8, 9
- onboarding, 2–4
- Overindex, 4, 5
- personal finance, learning, 10–12
- reading code, 9, 10

- take care, body, 12, 13
- work through trepidation, 5, 6
- FizzBuzz, 171, 172
- Flaws, 165, 166
- Fluid business process, 109
- Frequent feedback, 127

## G

- “Good-enough” decision, 21
- Google Cloud Platform, 127
- Google search, 139
- Google Web Toolkit, 70

## H

- Hammer, 116, 117
- Hands-on-keyboard coder, 195
- Hard questions, 25, 26
- Hiring manager, 167

## I

- Imposter syndrome, 27
- Infrastructure as a service (IaaS), 54
- Integrated development environment (IDE), 60–62
- Interaction, 120
- Interview problems, 171
- Interviews, 163, 164
- Issues, 165

## J

- Jargon, 96
- JavaScript, 70
- JavaScript Object Notation (JSON), 56
- Job descriptions, 163
- Journaling
  - multiple tags, 44
  - organization, 43, 44
  - personal results, 46
  - reviews, 45
  - schedule, 45
- jq, 58, 59
- Just-in-time learning, 134, 135

## K

- Keyboard, 74

## L

- Languages learning, 144, 146
- Layoff, 188–190
- Leadership, 116
- Leadership knowledge, 132
- Leading vs. lagging indicators, 92, 93
- Learn from customers, 119–121
- Learning
  - expert beginner, 132–134
  - expert intuition (see Expert intuition)
  - Google, 125
  - listening, 142–144
  - listen to podcasts, 139, 140
  - never stop, 124, 125
  - observation and personal experience, 124
  - opportunities, 127
  - pattern match, 134, 135
  - programming language, 144
  - RSS reader, 137–139
  - second programming language, 144, 146
  - software development books, 141, 142
  - something boring, 135, 136
  - subscribe to link newsletters, 140, 141
  - and teaching, 128–130
  - team, 136, 137
  - woodlot, 130–132

- Leverage, 53, 54

- Libraries and frameworks, 54

- LinkedIn, 191, 192

- Listening, 142–144

## M

- Meetups, 199–201

- Mistakes

- avoid repeating errors, 152
- despair of ineptitude, 157, 158
- don't be afraid, 152, 153
- forgiven, 150
- get used to failure, 147, 148
- hiding, 151
- making mistakes is okay, 149, 150
- production and revenue-generating table, 153, 154

Mistakes (*cont.*)

- putting plates in toasters, 155
- someone making, 156
- weaknesses, 158–160

Modern software technique, 129

Motivation, 50, 51

**N**

Network engineering, 67, 68

Never stop learning, 124, 125

**O**

OAuth process, 143

Onboarding, 2–4

One-to-one meetings, 182, 185

One to ones management, 182–185

Online tech communities, 202–204

Outcomes over output, 108, 109

Out-of-date documentation, 42

Overindex, 4, 5

**P**

Pattern matching, 134, 135

Perl, 124

Personal finance, 10–12

Platform as a service (PaaS), 54

Playing, 99

Podcasts, 139, 140

Poor interview treatment, 165

Postal service, 68

Potential employers, 101, 164

Potential vs. delivery, 174, 175

## Practices

- assume positive intent, 87, 89
- avoid jargon, 96
- consistency is key, 101, 102
- debug systems, 85–87
- don't complain about code, 95, 96
- empathy, 94
- estimation (see Estimation)
- express gratitude, 89, 90
- look around corners, 79, 80

play a lot more, 99

reading code, 80–82

say no, 98, 99

side project, building, 100, 101

skills, 91–93

solving business problems, 77–79

time is money, 97, 98

Practice touch typing, 74

Programming koan, 65

**Q**

## Questions

answers from busy people, 23, 24

benefits of research, 16

communities on the Internet, 17–19

don't be afraid, 19, 20

hard questions, 25, 26

“I don't know”, 31, 32

preparing to ask, 16, 17

stack overflow, Improving, 30, 31

technical decisions, 20–23

trade-offs, 29

whys, 27–29

**R**

Reading code, 9, 10

README, 16

Really simple syndication (RSS)

reader, 137–139

Real-time messaging, 38, 39

Recruiting event

appearance, 170

conversation, 170

introduction, 169

resume, 167–169

Regular world, 126

Remote work, 187, 188

Resume, 167–169

Ruby meetup, 199

Runway, 181, 182

**S**

Scheduling, 45

Search engines, 48, 72, 73

- sed, 58
  - Seeking feedback, 120
  - Self-funding, 117
  - Skills, 91–93
  - Slashdot, 203
  - Small consulting company, 173, 174
  - Software as a service (SaaS), 54
  - Software development knowledge, 131
  - Software development process, 146
  - Software engineering, 27, 116
  - Software quality and process, 116
  - Speed of trust, 89
  - Spend money to make money, 110, 111
  - SQLAlchemy for Python, 69
  - Stack Overflow, 16, 30, 31, 72, 138
  - Standard library, 62–65
  - Structured query language (SQL), 68, 69, 153
  - Subscribing, 140
  - Substandard dependency management system, 71
- T**
- Tab-separated variables (TSV), 56
  - Task estimation, 84
  - Teaching, 128–130
  - Team learning, 8, 9, 136, 137
  - Technical decisions, 20–23
  - Technical ebook writing, 39–41
  - Test-driven development (TDD), 129
  - Test suite, 53
  - Text editors, 60, 61
  - Theoretical expertise, 131
  - Time is money, 97, 98
  - Tools
    - automated testing, 65–67
    - awk, 57
    - benchmarking, 71, 72
    - CLI, 54–56
    - debuggers, 70, 71
    - IDE, 61, 62
    - jq, 58, 59
    - keyboard, 74
    - leverage, 53, 54
    - network engineering, 67, 68
    - search engines, 72, 73
    - sed, 58
    - software delivery capacity, 53
    - SQL, 68, 69
    - standard library, 62–65
    - text editors, 60, 61
    - version control, 59, 60
  - Trade-offs, 29
- U**
- Unix tools, 57
- V**
- Version control, 59, 60
- W, X, Y, Z**
- Weaknesses, 158–160
  - Web server access log lines, 57
  - Web server log, 57
  - Woodlot, 130–132
  - WordPress, 47
  - Work community, 205, 206
  - Work-life balance, 175–177
  - Writing
    - asynchronous, 33
    - blog (see Blogging)
    - clarifying, 33
    - developer documentation, 41–43
    - durable, 33
    - email, tips, 36, 37
    - journaling (see Journaling)
    - motivation, 50, 51
    - public, 51
    - read your work aloud, 34
    - real-time messaging, 38, 39
    - shareable, 33
    - software, 114
    - technical ebook, 39–41
    - things down, 35, 36