

# **The Effective Engineer**

**Make a Disproportionate Impact**

## THE EFFECTIVE ENGINEER



How to Leverage Your Efforts in Software Engineering  
to Make a Disproportionate Impact

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Foreword by Bret Taylor

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# **Effective Engineers**

**Produce results**

**Get things done efficiently**

**Focus on value and impact**

# Success

Your career success and growth is proportional to the value you create

**Impact  $\neq$  Technical Ability + Experience**

- Technical ability plateaus over time
- Experience solving the same scale/scope of problems does not increase your impact

# Growing

Identify and solve problems that are **core to the business** and enable those around you to effectively solve these problems.

*Decide where to spend your efforts to maximize your impact*

- Which business problems to solve
- What software to build
- What code to write

# **How to be Effective**

**Adopt the Right Mindset**  
**Execute, Execute, Execute**  
**Build Long-Term Value**

# Adopt the Right Mindset

- Focus on high leverage activities

$$\text{Leverage} = \frac{\text{Impact Produced}}{\text{Time Invested}}$$

- Optimize for learning
- Prioritize regularly

# **Execute, Execute, Execute**

- Make a plan
- Invest in iteration speed
- Measure what you want to improve
- Validate ideas early and often
- Improve your project estimation skills

# Build Long-Term Value

- Balance quality with pragmatism
- Minimize operational burden
- Invest in your team's growth



# Grow as an Engineer #1

- Build tools/abstractions that multiply the output of engineering teams
- Develop expertise to consult on software and experiments from other engineers
- Deep technical expertise in an area core to the business/growing the company

# Grow as an Engineer #2

- Identify critical business opportunities and build a solution to address that need
- Build on-boarding/mentoring programs to train engineers in increase their value
- Play a key role in developing a solid hiring process and help recruit top talent
- Contribute to build the engineering brand of the company

# **Taking Ownership**

**is the most effective way to get what you want**

# Reference

**The Effective Engineer by Edmond Lau**  
**Key Takeaways (PDF)**