

The War For Software Engineering Talent: What should engineers do ?

ON LEE

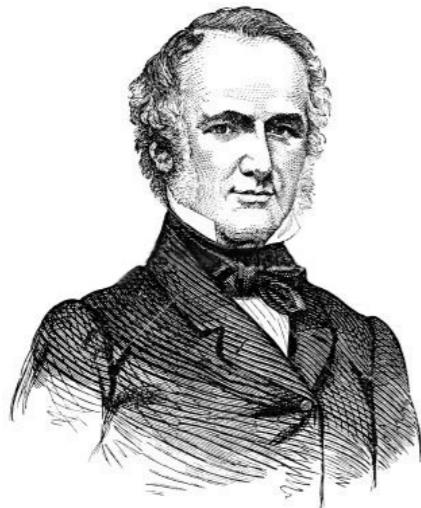
CTO of GDP Venture, GDP Labs and COO & CTO of KASKUS



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Industrial Revolution



Cornelius Vanderbilt
(1794 - 1877)



Andrew Carnegie
(1835 - 1919)



J. P. Morgan
(1837 - 1913)



John Rockefeller
(1839 - 1937)



Henry Ford
(1863 - 1947)

Digital Revolution



Ada Lovelace
(1815 - 1852)



Grace Hopper
(1906 - 1992)



Alan Turing
(1912 - 1954)



David Packard
(1912 - 1996)



William Hewlett
(1913 - 2001)



Robert Noyce
(1927 - 1990)



Steve Jobs
(1955 - 2011)



Gordon Moore
(1929 - present)



Andrew Grove
(1936 - present)



Nolan Bushnell
(1943 - present)



Bill Gates
(1955 - present)

Software Industry



Pioneered by
Bill Gates

software

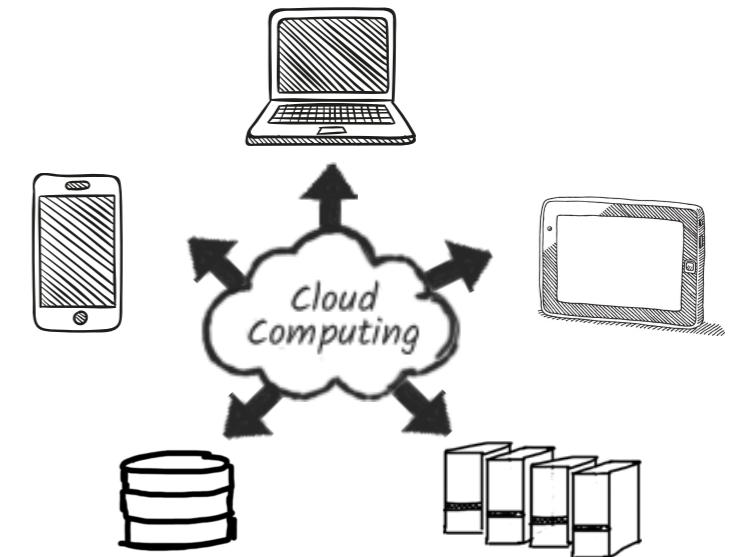
Coined as a prank
as early as 1953

“Technology is a gift of God. After the gift of life it is perhaps the greatest of God’s gift. It is the mother of civilizations, of arts and of sciences.”

Freeman Dyson

*Why Are We Experiencing
Software Engineers Shortage ?*

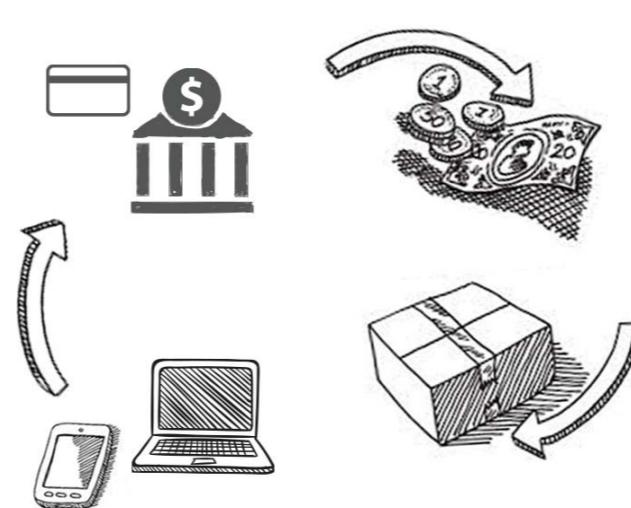
Technology Megatrends



Internet

Mobile Computing

Cloud Computing



Social Networking

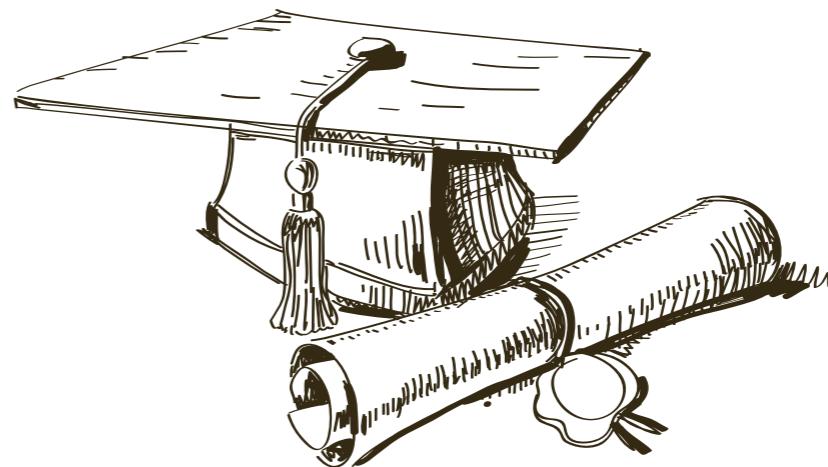
Financial Technology

Internet of Things

Programming



A gift?



A skill?

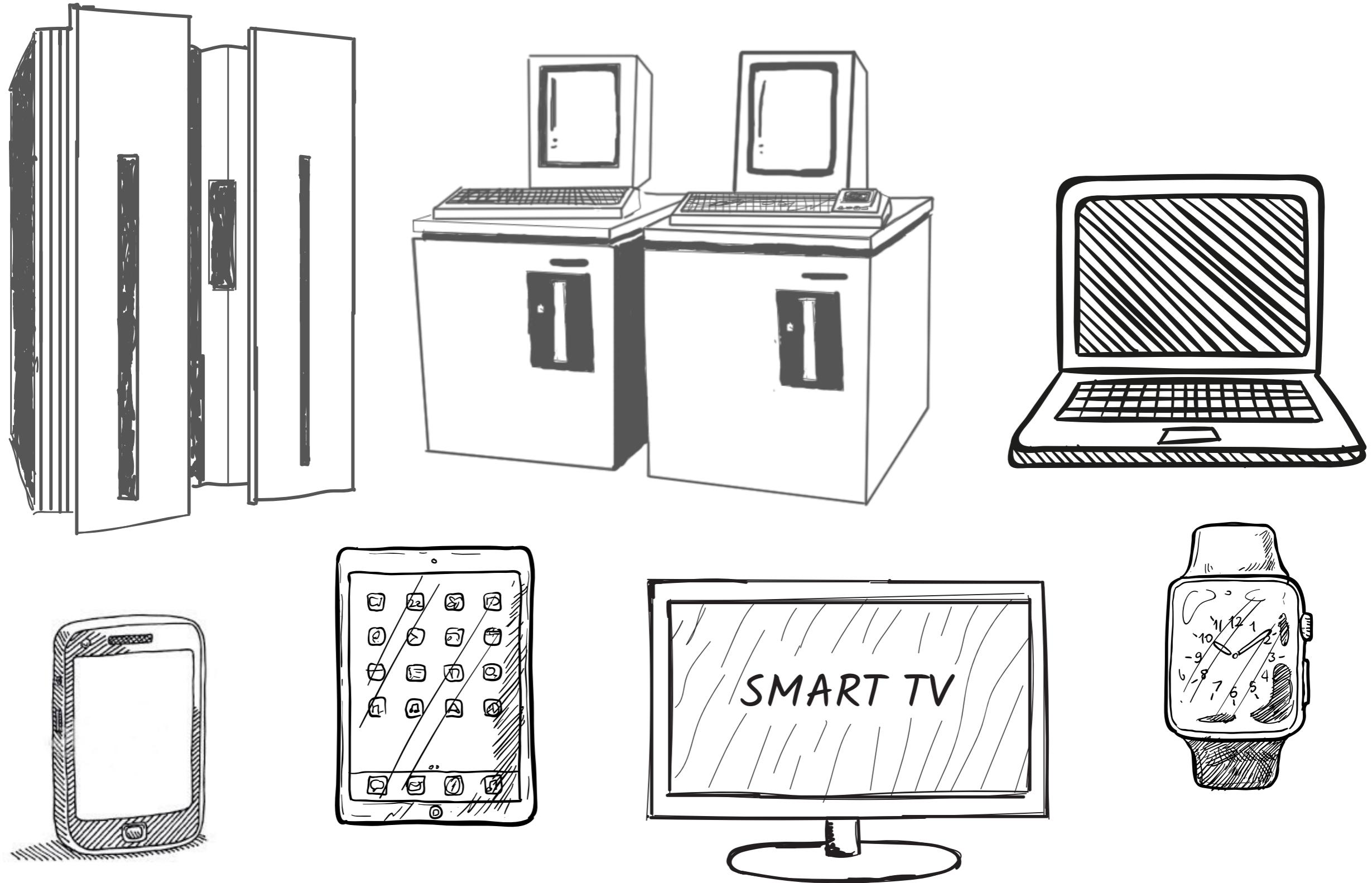


A passion?

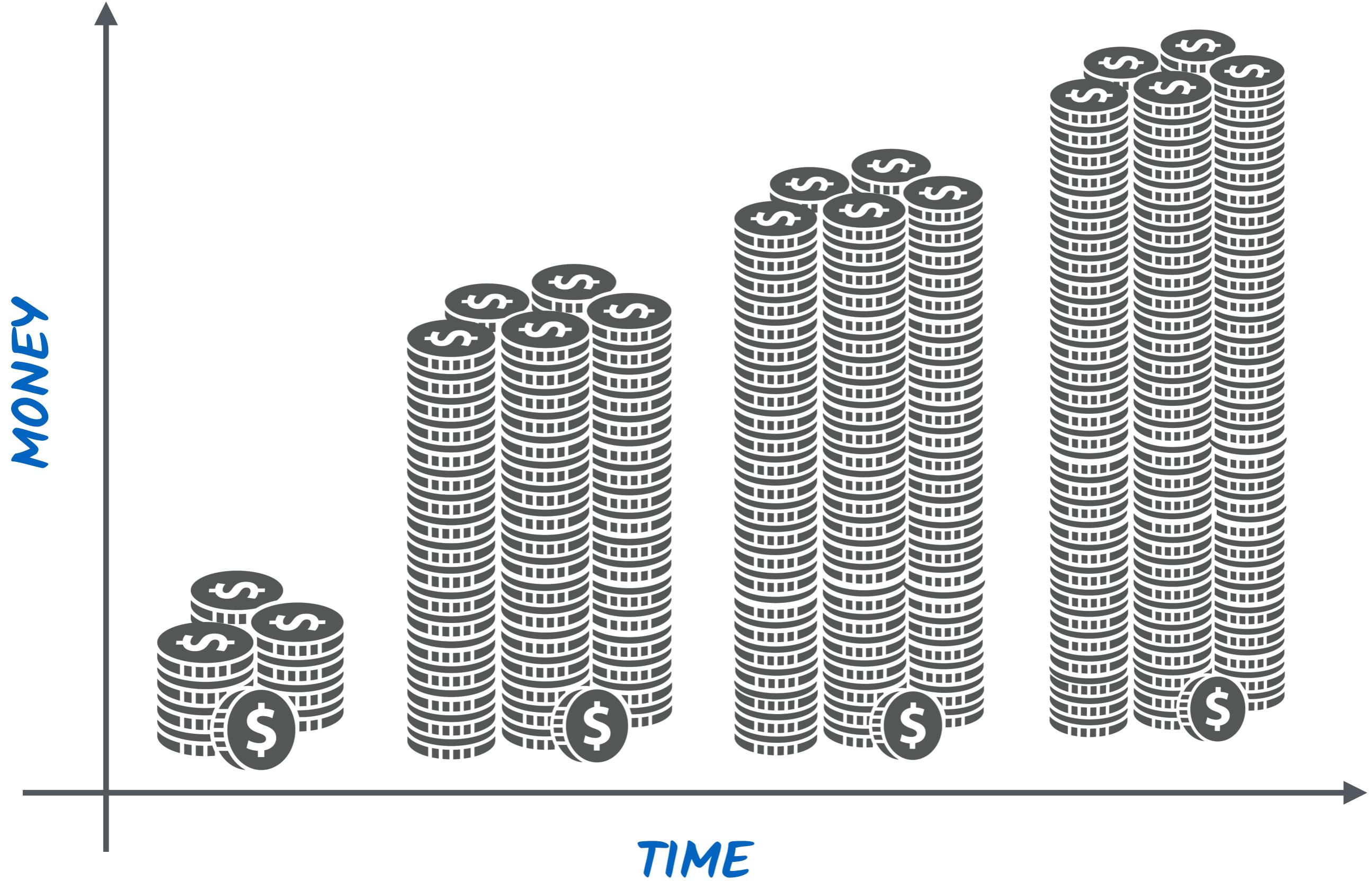


A talent?

Constantly Changing



Software Industry: Big Business and Still Growing



*What Should
Software Engineers Do ?*

Learn, Unlearn and Relearn

Alvin Toffler
(1928 - present)

Futurist and Philosopher



“ The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn. ”

Seek Work Environments Conducive To Learning

Charlie Munger
(1924 - present)

American business magnate, lawyer,
investor, billionaire and philanthropist



“ I constantly seen people rise in life who are not the smartest. But he noted that **they** are learning machines, adding that **they** go to bed every night a little wiser (smarter) than they were when **they** got up. ”

Be a Fast Learner

Professor John Ousterhout

(1954 - present)

Professor at Stanford University,
Computer Science Researcher



“ How fast you learn is a lot more important than how much you know to begin with. So in general I say that people emphasize too much how much they know and not how fast they're learning. I often ask myself: Have I learned one new thing today? ”

Dedicate Time On The Job To Develop New Skills

- * Study code for core abstractions written by the best engineers at your company
- * Write more code
- * Go through any technical, educational material available internally
- * Master the programming languages that you use
- * Send your code reviews to the harshest critics

Dedicate Time On The Job To Develop New Skills

- * Enroll in classes on areas where you want to improve
- * Participate in design discussions of projects you're interested in
- * Work on a diversity of projects
- * Make sure you're on a team with at least a few senior engineers whom you can learn from
- * Jump fearlessly into code you don't know

WE ARE HIRING!



jobs@gdplabs.id

THANK YOU

Q & A