

# Development Monetization



#### The Common Path

- 1. Graduate
- 2. Look for a job.
- 3. Get a job.
- 4. Get paid biweekly.
- 5. Do what you're told.
- 6. Quit/Get Laid Off/Fired
- 7. Goto: 2

### The Becoming Common Path

- 1. Graduate
- 2. Look for a job.
- 3. Get a job.
- 4. Get paid biweekly.
- 5. Do what you're told.
- 6. Work a side gig
- 7. Quit/Get Laid Off/Fired
- 8. Keep working your side gig
- 9. Goto: 2

### Salary Estimates

Starting ~\$70,000

5+ years: \$110,000

401K vs IRA

Health Savings Account (HSA) ~\$500-1000/month ~\$2,000-\$10,000 deductible

Flexible Spending Account (FSA) - Save for medical costs, use it or lose it.

### Charging for Services

Market always dictates

Salary you'd like to make, divided by 2,000 (50 weeks \* 40 hours)

Ex: \$10/hour = \$20,000/year Ugh.

Ex: \$50/hour = \$100,000/year. Yeah! Or Yeah?

Health insurance, retirement, etc.

Not all hours are billable!

#### File for an LLC

File your LLC name with the state.

https://sos.idaho.gov/corp/llc\_form.html

Get a free EIN number for you business. This is like a Social Security Number but for your business

http://www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Apply-for-an-Employer-Identification-Number-(EIN)-Online

Open a credit union account with your business name and EIN

#### LLC Taxes

LLC income for a sole proprietor is a "pass through"

You pay income tax on ALL income, whether you pay yourself or not

Use write offs and expenses to reduce the income amount

Make \$10,000, pay 20% in taxes, you owe \$2,000 (minus deductions, standard or otherwise)

Make \$10,000, have \$4,000 in expenses, pay 20% on \$6,000 instead. You owe \$1,200.

### Developer Types

Backend - Spring, .Net, NodeJS

Frontend - React, AngularJS, VueJS, Bootstrap, Foundation

Mobile - Java, Kotlin, Swift, React Native

Languages - Java, C#, JavaScript, Python, Ruby, "Computer Programming"

#### Where to start?

Look at job requirements.

Ex: **Robotics**: Embedded development, firmware, ROS, C/C++. Start with Pi or Arduino robots.

Ex: **Sr. Software Engineer**: Spring, Kafka, Hibernate, GraphQL, NoSQL, SQL, Liquibase, SaaS, ReST, PaaS, Ehcache, Redis, Cucumber, Elasticsearch, Kubernetes, Docker, etc. Start with building your own web app. I recommend JHipster.

#### Real World Decision Makers

Usually no real programming experience. "Dabbled"

Technical directors with no technical skills. "I'm a people person."

These are the What People.

### Technical Managers

Decision makers with technical skills are rare.

No one is a born leader. It takes practice.

No one will give you a responsibility you have no experience in. You must make it yourself.

#### Job Interviews

#### Typical:

Resume with an internship, clubs, awards, classes.

But people want to see projects, portfolios and participation.

You go and try to prove you're worth your salary.

Interviewer usually has no experience themselves (in my experience).

### Creating Your Own Thing

Who wouldn't want someone who can generate \$100,000-400,000/year.

A developer who can manage their own teams, requirements, project estimation and budget.

You'll know the same basics as CEOs and CTOs.

Lean Start Up

### The Apps Business

First time in history it's this easy to make money.

One man shops can generate huge profits.

Flappybirds (\$50,000/day, 1 guy)

WhatsApp (\$19 billion, 32 engineers)

### Main Revenue Generators

Ad supported

Paid apps

Business to Business (B2B)

Business to Consumer (B2C)

### Ideas are Cheap

Those that can't execute, are simply dreamers.

Those that can implement are masters of their domain.

You all are able to execute on any idea.

### More Realistic

Small dev team, building custom apps for yourself or for a client.

A couple hobby apps that generate \$50-100/month

### In App Purchases

Freemium model allows low barrier to entry.

Shows users how useful your app can be and why they should unlock additional features.

### Ads

Great for apps that get a lot of views

### Sales - B2C

Business to Consumer (B2C)

Most apps are this model (including apps with ads)

It takes a lot of \$1 downloads to make a living.

### ROI

\$2,079.00

\$4,158.00

\$6,237.00

Cost of App	\$0.99											
Store's Cut	\$0.30											
Revenue	\$0.69											1
Cost of Dev	\$2,100.00											
						Months						
Daily Sales	1	2	3	4	5	6	7	8	9	10	11	12
1	\$20.79	\$41.58	\$62.37	\$83.16	\$103.95	\$124.74	\$145.53	\$166.32	\$187.11	\$207.90	\$228.69	\$249.48
2	\$41.58	\$83.16	\$124.74	\$166.32	\$207.90	\$249.48	\$291.06	\$332.64	\$374.22	\$415.80	\$457.38	\$498.96
3	\$62.37	\$124.74	\$187.11	\$249.48	\$311.85	\$374.22	\$436.59	\$498.96	\$561.33	\$623.70	\$686.07	\$748.44
4	\$83.16	\$166.32	\$249.48	\$332.64	\$415.80	\$498.96	\$582.12	\$665.28	\$748.44	\$831.60	\$914.76	\$997.92
5	\$103.95	\$207.90	\$311.85	\$415.80	\$519.75	\$623.70	\$727.65	\$831.60	\$935.55	\$1,039.50	\$1,143.45	\$1,247.40
6	\$124.74	\$249.48	\$374.22	\$498.96	\$623.70	\$748.44	\$873.18	\$997.92	\$1,122.66	\$1,247.40	\$1,372.14	\$1,496.88
7	\$145.53	\$291.06	\$436.59	\$582.12	\$727.65	\$873.18	\$1,018.71	\$1,164.24	\$1,309.77	\$1,455.30	\$1,600.83	\$1,746.36
8	\$166.32	\$332.64	\$498.96	\$665.28	\$831.60	\$997.92	\$1,164.24	\$1,330.56	\$1,496.88	\$1,663.20	\$1,829.52	\$1,995.84
9	\$187.11	\$374.22	\$561.33	\$748.44	\$935.55	\$1,122.66	\$1,309.77	\$1,496.88	\$1,683.99	\$1,871.10	\$2,058.21	\$2,245.32
10	\$207.90	\$415.80	\$623.70	\$831.60	\$1,039.50	\$1,247.40	\$1,455.30	\$1,663.20	\$1,871.10	\$2,079.00	\$2,286.90	\$2,494.80
15	\$311.85	\$623.70	\$935.55	\$1,247.40	\$1,559.25	\$1,871.10	\$2,182.95	\$2,494.80	\$2,806.65	\$3,118.50	\$3,430.35	\$3,742.20
20	\$415.80	\$831.60	\$1,247.40	\$1,663.20	\$2,079.00	\$2,494.80	\$2,910.60	\$3,326.40	\$3,742.20	\$4,158.00	\$4,573.80	\$4,989.60
25	\$519.75	\$1,039.50	\$1,559.25	\$2,079.00	\$2,598.75	\$3,118.50	\$3,638.25	\$4,158.00	\$4,677.75	\$5,197.50	\$5,717.25	\$6,237.00
30	\$623.70	\$1,247.40	\$1,871.10	\$2,494.80	\$3,118.50	\$3,742.20	\$4,365.90	\$4,989.60	\$5,613.30	\$6,237.00	\$6,860.70	\$7,484.40
35	\$727.65	\$1,455.30	\$2,182.95	\$2,910.60	\$3,638.25	\$4,365.90	\$5,093.55	\$5,821.20	\$6,548.85	\$7,276.50	\$8,004.15	\$8,731.80
40	\$831.60	\$1,663.20	\$2,494.80	\$3,326.40	\$4,158.00	\$4,989.60	\$5,821.20	\$6,652.80	\$7,484.40	\$8,316.00	\$9,147.60	\$9,979.20
45	\$935.55	\$1,871.10	\$2,806.65	\$3,742.20	\$4,677.75	\$5,613.30	\$6,548.85	\$7,484.40	\$8,419.95	\$9,355.50	\$10,291.05	\$11,226.60
50	\$1,039.50	\$2,079.00	\$3,118.50	\$4,158.00	\$5,197.50	\$6,237.00	\$7,276.50	\$8,316.00	\$9,355.50	\$10,395.00	\$11,434.50	\$12,474.00
55	\$1,143.45	\$2,286.90	\$3,430.35	\$4,573.80	\$5,717.25	\$6,860.70	\$8,004.15	\$9,147.60	\$10,291.05	\$11,434.50	\$12,577.95	\$13,721.40
60	\$1,247.40	\$2,494.80	\$3,742.20	\$4,989.60	\$6,237.00	\$7,484.40	\$8,731.80	\$9,979.20	\$11,226.60	\$12,474.00	\$13,721.40	\$14,968.80
70	\$1,455.30	\$2,910.60	\$4,365.90	\$5,821.20	\$7,276.50	\$8,731.80	\$10,187.10	\$11,642.40	\$13,097.70	\$14,553.00	\$16,008.30	\$17,463.60
80	\$1,663.20	\$3,326.40	\$4,989.60	\$6,652.80	\$8,316.00	\$9,979.20	\$11,642.40	\$13,305.60	\$14,968.80	\$16,632.00	\$18,295.20	\$19,958.40
90	\$1,871.10	\$3,742.20	\$5,613.30	\$7,484.40	\$9,355.50	\$11,226.60	\$13,097.70	\$14,968.80	\$16,839.90	\$18,711.00	\$20,582.10	\$22,453.20
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\$8,316.00 \$10,395.00 \$12,474.00 \$14,553.00 \$16,632.00 \$18,711.00 \$20,790.00 \$22,869.00 \$24,948.00



"I would like to speak with someone about creating an app. I am curious about the timetable and costs involved with the creation process. An e-mail or phone call would be greatly appreciated. I look forward to hearing from your team."

"Was wondering if someone could give us a call in regards to an application development."

"Hi, I have an idea for an app that I believe could be very successful and lucrative. Unfortunately, I do not have the skills to create it. I am seeking a partnership with someone who would be willing to go 50/50. Please reply if interested."

"Please contact me regarding app development."

#### B<sub>2</sub>B

**Business to Business** 

Businesses tend to have more money to spend

They understand it costs money to make money

When it comes to making money, they get it

#### B2B Emails

"We are currently developing a new product, and we need to outsource an app developer. I would like schedule a brief chat about our needs and to see if your company is able to create our needed the functionality. Please provide a contact number and preferred hours of contact. Look forward to hearing from you."



### B2B Earnings

Last 5 Client Apps total: ~\$75,000

Average cost per app: ~\$15,000

Lowest app: ~\$800

Highest: \$45,000

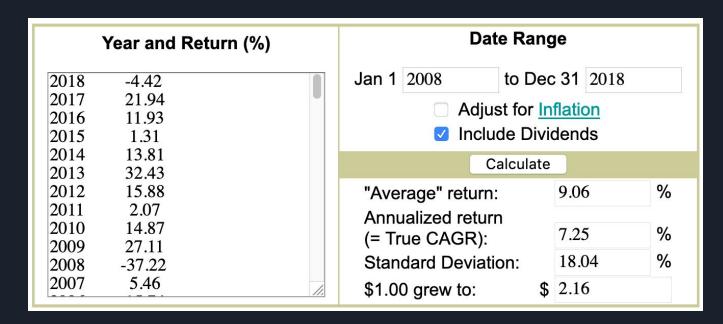
### Investing in Your Business

What do you buy, when do you buy it, and what can you afford?

#### Investments as Income

Stock market geometric average is about 9. Your investments in your business should yield > 9.

#### **Source**



#### Real Estate as Income

\$120,000 apartment, renting out at \$900/month

Mortgage: \$750/month (PITI)

Rent: \$900/month

Income: \$150/month

Yearly income: \$1,800 + principal equity

ROI (assuming 20% down): 7.5%

### Apps as Income

\$200 investment & 1 month (160 hours) (\$5,000.00)

App downloads per day: 3

Income per day: \$2.08

Income per month: \$62.37

Yearly income: \$748.44

ROI: ...

### Not Everything is About Money

Trying to get a job and showing you have these skills is invaluable.

## ROI

	Year and Return (%)	Date Range				
2018 2017 2016 2015	-4.42 21.94 11.93 1.31	Jan 1 2008 to Dec 31 2018  ☐ Adjust for Inflation ☐ Include Dividends				
2014 2013 2012	13.81 32.43 15.88	Calculat "Average" return:	9.06	%		
2011 2010 2009	2.07 14.87 27.11	Annualized return (= True CAGR):	7.25	%		
2009 2008 2007	-37.22 5.46	Standard Deviation: \$1.00 grew to:	18.04 \$ 2.16	%		