

CS411 @ BU

LAB 001

INTRO

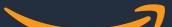


QUESTROM
SCHOOL OF
BUSINESS

BUCS



The
LegalTech
Fund



WHAT TO EXPECT



TECHNICAL SKILLS



TEAMWORK



PROJECT DEMO'S



SKILLS?

The everyday things we don't learn @ BU

SKILLS

FRONT-END FRAMEWORKS
GIT & CLI
REBASE & MERGE

INTERVIEW PREP
MOBILE APP DEV
UNIT TESTING
VERSION CONTROL
DEPENDENCY INJECTION
JSON/XML
SCRUM/KANBAN
DATABASES
API's

PROGRAMMING VS SOFTWARE ENGINEERING

WHAT'S THE DIFFERENCE

PROGRAMMING

Writing and Evaluating Code

Debugging

Single Stage

Single Component

SOFTWARE ENGINEERING

System Design

Software Development Lifecycle

Multiple Projects

Oversees Entire Process



CLASS PROJECT

What are you making?

- OAuth
- 2 APIs
- Database
- Front/Back End



HIRING

Why is nobody talking about this?



PREP WORK



LEETCODE

Status	Title	Solution	Acceptance	Difficulty	Frequency
⌚	472. Concatenated Words	⌚	46.5%	Hard	🔒
✅	1. Two Sum	⌚	49.4%	Easy	🔒
✅	2. Add Two Numbers	⌚	40.1%	Medium	🔒
✅	3. Longest Substring Without Repeating Chara...	⌚	33.8%	Medium	🔒
✅	8. String to Integer (atoi)	⌚	16.6%	Medium	🔒
✅	13. Roman to Integer	⌚	58.2%	Easy	🔒
✅	21. Merge Two Sorted Lists	⌚	62.2%	Easy	🔒
✅	23. Merge k Sorted Lists	⌚	48.8%	Hard	🔒
✅	42. Trapping Rain Water	⌚	59.1%	Hard	🔒
✅	53. Maximum Subarray	⌚	50.1%	Medium	🔒
✅	56. Merge Intervals	⌚	46.1%	Medium	🔒
⌚	66. Plus One	⌚	48.6%	Medium	🔒

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Weekly Premium ⓘ 1 day left

W1 W2 W3 W4 W5

0 Redeem Rules

Companies ⏪ ⏩

Search for tags...

Amazon 1274 Google 1227

Microsoft 768 Facebook 703

Apple 667 Bloomberg 635

LEETCODE

LeetCode

Problem List

Premium



Description

Discussion (102)

Solutions (13.4K)

Submissions

i Java

Auto



3. Longest Substring Without Repeating Characters

Medium ✓ 31.7K ⚡ 1.4K ⭐ ⏪

Companies

Given a string `s`, find the length of the **longest substring** without repeating characters.

Example 1:

Input: s = "abcabcbb"

Output: 3

Explanation: The answer is "abc", with the length of 3.

Example 2:

Input: s = "bbbbbb"

Output: 1

Explanation: The answer is "b", with the length of 1.

Example 3:

```
1 class Solution {
2     public int lengthOfLongestSubstring(String s) {
3         ArrayList<String> storage = new ArrayList<String>();
4         int maxValue = 0;
5         for(int i = 0; i < s.length(); i++){
6             String cur = s.charAt(i)+"";
7             int index = storage.indexOf(cur);
8             if(index == -1){
9                 storage.add(cur);
10            }
11            else{
12                for(int k = index; k >= 0; k--){
13                    storage.remove(k);
14                }
15                storage.add(cur);
16            }
17            if(storage.size() > maxValue){
18                maxValue = storage.size();
19            }
20        }
21    }
22 }
```

Testcase Result

Case 1

Case 2

Case 3



LINKEDIN



Search

Home My Network Jobs Messaging



Sam Pomerantz

SDE Intern @ Amazon | CS + Finance @ Boston University
Boston, Massachusetts, United States · [Contact info](#)

500+ connections

Open to Add profile section More



Amazon



Boston University

Open to work
Software Engineer and Software Developer roles
[See all details](#)

Analytics

Private to you

440 profile views

Discover who's viewed your profile.

12,377 post impressions

Check out who's engaging with your posts.

105 search appearances

See how often you appear in search results.

0 total candidates

0 have company connections

0 past applicants

0 engaged with your Talent Brand

Job titles

+ Job titles or boolean

Locations

+ Candidate geographic locations

Skills

+ Skills and expertise or boolean

Companies

+ Companies or boolean

Employment type

+ May be open to these types of employment

Year of Graduation

+ Add graduation year range

Schools

+ Schools attended

Industries

+ Candidate industries

Keywords

Candidate details

+ Postal code / Zip code

+ Spoken languages

+ Profile languages

+ Recently joined LinkedIn

Education & experience

+ Years of experience

+ Years in current company

+ Years in current position

+ Military veterans

Company

+ Current companies

+ Past companies

+ Company types

Filter by first names

+ Last names

+ Network relationships

Fields of study is in the

+ Degrees

+ Seniority

+ Company sizes

+ Company followers

+ Job functions

Angelina

Lee

Software Engineer

Skills

415-812-3329
AngelinaTheDev@gmail.com
angelinatheDev.netlify.app

Experienced software engineer with a background of building scalable systems in the fintech, health, and adult entertainment industries.
Expert in JavaScript, TypeScript, Node.js, React AI, Mia Khalifa, C++

Experience

Instagram / Senior Full Stack Engineer - Web App Team
October 2018 - PRESENT, Palo Alto, California

- Built news feed infrastructure using React for AI on BlockChain
- Optimized web app feed performance through new server-side React larceny AI algorithm to quickly resolve big data pipeline
- Led team of 6 engineers to mine Ethereum on company servers
- Team coffee maker - ensured team of 6 was fully caffeinated with Antarctic coffee beans ground to 14 nm particles

Zillow / Senior Full Stack Engineer - Web App Team
June 2015 - September 2018, San Francisco, California

- Added AI based GraphQL, resulting in 69% faster page loads
- Organized team bonding through company potato sack race resulting in increased team bonding and cohesity
- Rebuilt home display page with virtualized tables and map to provide a 420fps on screen experience with Lhana Rhodes
- Evangelized and adopted RaeLilBlack React UI library

LinkedIn / Software Engineer - Search Team
June 2013 - September 2015, San Francisco, California

- Improved LinkedIn search algorithm efficiency and accuracy through the usage of VoldemortDB, Charizard, and Hadoop
- Connected with Reid Hoffman on LinkedIn and slid in the dm's
- Implemented data quality improvements via deduplication and advanced profile ranking resulting in faster big data with React

Microsoft / Software Engineer Intern - Edge Team
May 2011 - August 2012, Redmond, Washington

- Built React based big data pipeline to enhance deployment stability of Microsoft Edge browser on the Blockchain
- Spearheaded Microsofters 4 Trump company rally
- Spread Herpes STD to 60% of intern team

University of California Berkeley / B.S. in Computer Science
August 2010 - May 2013, Berkeley, California

- Graduated Summa Cum Laude with a 3.94 GPA
- Helped found [Machine Learning at Berkeley Club](#)
- Phi Beta Phi - fraternity record for most vodka shots in one night
- 2348/2400 SAT score



Len Markidan
Chief Marketing Officer at Podia



Advertising Target

Facebook

Jul 2004 - Present · 18 yrs 2 mos
Home

- Recruited as early user for my experience with having an @edu email address.
- Received a "Facebook Beanie" award for performance in 2006 March Madness bracket.
- Consistently retargeted by F500 brands such as Samsung, Proctor & Gamble, and Verizon.



Prime Member

Amazon

Feb 2008 - Present · 14 yrs 7 mos
Home

- Increased order volume by 823% over 7 years
- Researched diverse product catalog, spanning departments from Simplehuman bag liners to cat food.
- Regularly reported on product quality using review portal.



Uncertified Genius

Apple

Nov 2003 - Present · 18 yrs 10 mos
Home

- Led remote tech support for older family members throughout the country.
- Maintained Siri comprehension rate of over 55% for three consecutive years.
- Once put off a software update for over 8 months.



Account Manager

Netflix

Apr 2009 - Present · 13 yrs 5 mos
Home

- Responsible for managing (and paying for) account shared by 5 globally distributed family members.
- Exceeded market benchmarks by typing password using Roku remote with 48% accuracy or greater.
- Multi-year recipient of suggestions for movies I've already watched.



Data Source

Google

Jul 2002 - Present · 20 yrs 2 mos
Home

- Responsible for managing submissions of monetizable personal data across a diverse suite of products including Search, Gmail, Maps, and more.
- Troubleshoot Calendar sync issues.
- Received #1 ranking in Search for my own name.

GITHUB

This screenshot shows Sam Pomerantz's GitHub profile page. At the top, there's a navigation bar with links for Product, Solutions, Open Source, Pricing, Search, Sign in, and Sign up. Below the navigation is a large circular profile picture of Sam, a young man with dark hair and glasses, smiling against a blue sky and ocean background. His GitHub handle, SamPom100, is displayed next to the picture.

The main content area has tabs for Overview (which is selected), Repositories (42), Projects, Packages, Stars (6), and a dropdown for 'Edit profile'. Below the tabs is a box for SamPom100 / README.md containing a block of ASCII art representing a face.

About Me: Sam describes himself as a Junior at Boston University dual majoring in Computer Science and Finance. He is passionate about developing tools that better the lives of others, especially when it comes to interactions with complex data and financial markets.

Profile Stats:

Sam Pomerantz's GitHub Stats

Total Stars Earned:	1.1k
Total Commits (2023):	534
Total PRs:	12
Total Issues:	9
Contributed to (last year):	2

A circular badge indicates an A+ rating.

Most Used Languages

Java	52.45%
Python	25.59%
Swift	6.98%
JavaScript	1.80%
HTML	12.19%

Achievements

Two achievement icons are shown: one with a gold trophy labeled 'x3' and another with a blue gear labeled 'Beta'.

Connect with me:

Links for LinkedIn and GitHub are provided.

WEBSITE



I'm Sam Pomerantz

Senior at Boston University |

[Resume](#)

[LinkedIn](#)

[GitHub](#)

[Email](#)



About Me

My name's Sam Pomerantz, and I'm a Senior at Boston University studying Computer Science and Finance. I'm passionate about developing tools that better the lives of others, especially when it comes interactions with complex data and financial markets.
[Check out this Unusual Volume Detector](#)

LEVELS

levels.fyi INTERNSHIPS

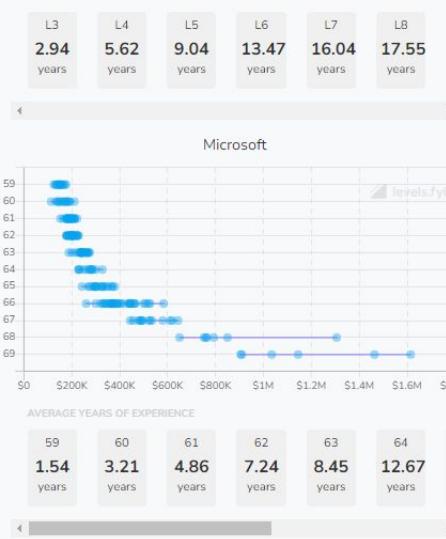
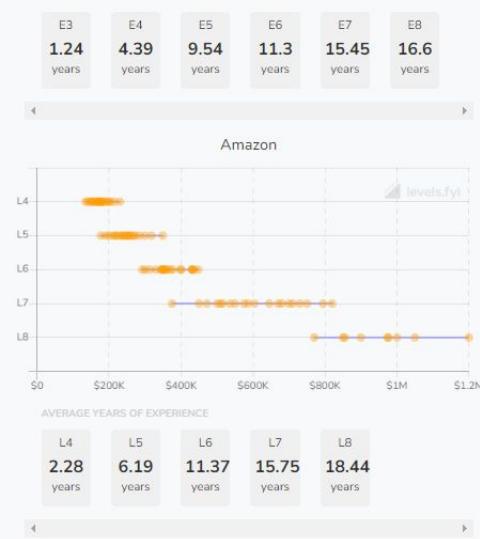
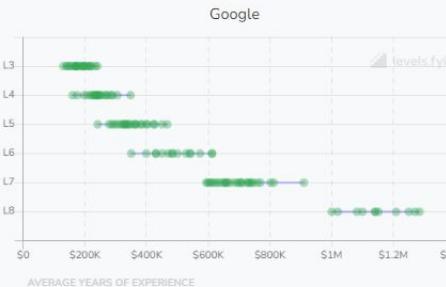
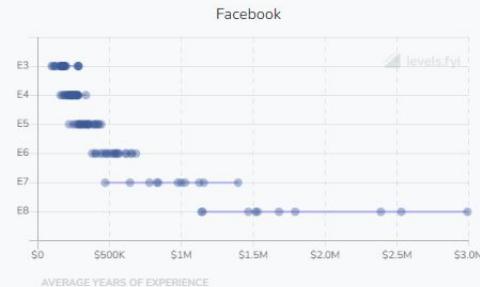
Internships are the surest path to a full-time job.

Here's what you need to know. [Expand Guide](#)

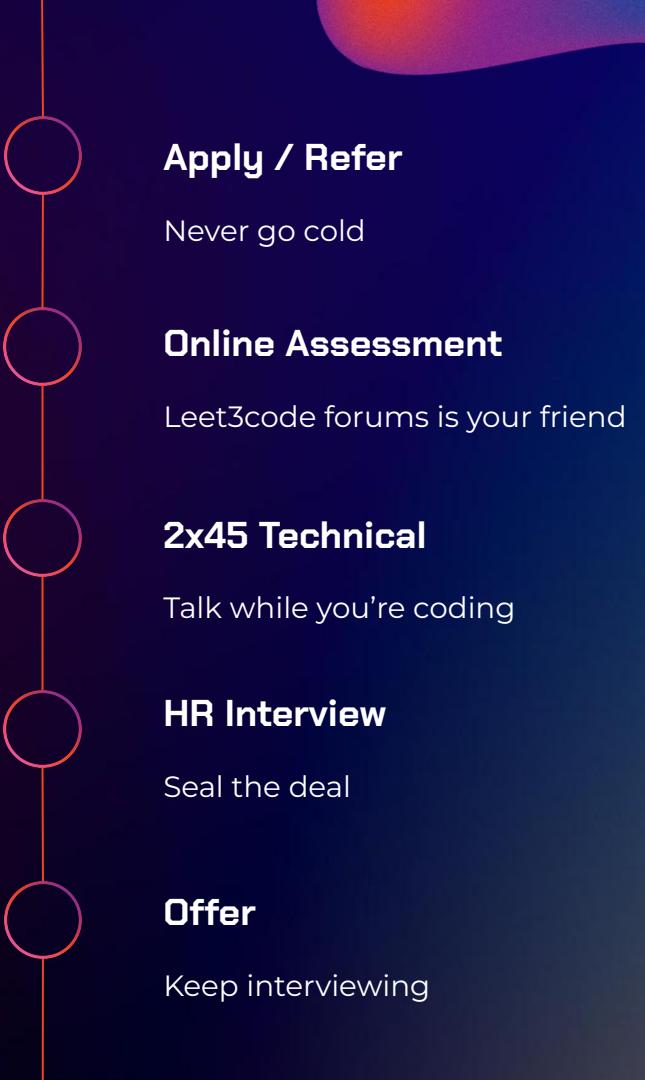
Software Engineer ▾ 2023 / 2022 Search Add Internship

All FAANG+ Financial Startups Filters

Company Location - Season / Year	Hourly Salary (Est.) Monthly Salary	Details Education, Benefits, Housing, Transportation, Tags	Apply Link Sort by Open / Closed
Netflix Los Gatos, CA - Summer / 2023 More Locations / Seasons →	\$80.77 / hr \$14,000 / mo	Undergrad (Junior) Corporate housing or \$10,000 post-tax lumpsum, \$500 for transportation, company provided relocation	Apply →
levels.fyi/internships			
Snap Santa Monica, CA - Summer / 2023 More Locations / Seasons →	\$69.81 / hr \$12,100 / mo	Undergrad (Junior) \$2,500 / mo housing, Free Food, Dental and health benefits	Apply →
Amazon Seattle, WA - Summer / 2023 More Locations / Seasons →	\$69.70 / hr ✓ \$12,080 / mo	\$2,425 / mo post tax housing, company provided relocation	Apply →
Google Remote - Summer / 2023 More Locations / Seasons →	\$63.46 / hr \$11,000 / mo	Undergrad (Junior) \$9,000 housing	Apply →
Roblox San Mateo, CA - Summer / 2023 More Locations / Seasons →	\$62 / hr ✓ \$10,747 / mo	Undergrad (Junior) \$10,000 housing	Apply →



TYPICAL TIMELINE



LEETCODE



< Back | Twitter | OA | Intern

Anonymous User | January 23, 2021 9:51 AM | 4.3K VIEWS

9 All questions were similar to some posts tagged as Twitter OA in Discuss.
Time: 1hr, Questions: 4

- <https://leetcode.com/discuss/interview-question/374446/Twitter-or-OA-2019-or-Efficient-Job-Processing-Service>
- <https://leetcode.com/discuss/interview-question/363036/Twitter-or-OA-2019-or-Activate-Fountain>
- <https://leetcode.com/discuss/interview-question/375262/Twitter-or-OA-2019-or-Partitioning-array>
- Easy question based on Array traversal!

intern | online assessment | twitter

Comments: 0

Best | Most Votes | Newest to Oldest | Oldest to Newest

Type comment here... (Markdown is supported)

Post

SEE YOU NEXT WEEK

GIT 101