

Insight
Fellows Program

Bridge the Gap Series

Jul 20, 2020

Preparing for the
Security &
Decentralized
Consensus Interviews



Outline

- Before the interview
- Speaking about yourself
- Sharing your code
- Capture the Flag (CTF)
- Asking questions

Before the interview

Before the Interview

- Deep dive on Insight
- Deep dive on security
- Know your interviewer

Speaking about yourself

Speaking about yourself

- Know thyself (or thy resume)
- Speak to what translates
- Keep it concise

Sharing your code

Showing your Code

- Give context for the problem
- Ready to share screen
- Start at a high-level
- Let the interviewer dive deep

Capture the Flag

Capture the Flag

- What's your thought process
- Humble isn't bad
- Let the interviewer dive deep
- What are next steps?

Facebook CTF Example

- [CTFtime.org](https://ctftime.org) [fbCTF.com](https://fbctf.com)
- [Github source and solutions](#)

The screenshot shows the GitHub repository page for 'fbctf-2019-challenges' by user 'fbsamples'. The repository has 5 watches, 87 stars, and 11 forks. It contains 1 commit, 1 branch, 0 releases, and 0 contributors. The repository is licensed under MIT. The commit history shows an initial commit by Gulshan Singh and gsingh93, dated 11 days ago. The repository contains several folders and files, all of which were committed initially 5 days ago.

File/Folder	Commit	Time
crypto	Initial commit	5 days ago
misc	Initial commit	5 days ago
pwnables	Initial commit	5 days ago
reversing	Initial commit	5 days ago
web	Initial commit	5 days ago
LICENSE	Initial commit	5 days ago
README.md	Initial commit	5 days ago

Asking questions

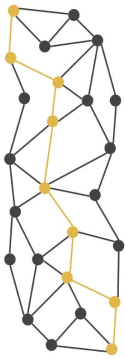
Asking questions

- Feel free to ask logistics
- Prepare "content" questions
- Be specific to interview
- Mind the time

How to you prepare yourself for Blockchain Engineering?



- Prepare a clean & updated **LinkedIn profile**



- **Domain knowledge**

- Cryptography basics (Why use a hash? Why use a nonce?)
- Mental models for incentive structures
- Designing for adversarial environments
- Understanding decentralization - benefits and drawbacks



- **Coding ability, learn one or two of these:**

- | | |
|------------|---------------|
| - Go | - C++ |
| - Rust | - Python |
| - Solidity | - Java/script |



- Showcase coding and documentation skills with a **strong GitHub portfolio**

Building a strong portfolio

- Contribute to codebases of major cryptocurrencies
- Build decentralized applications and platforms
- Create open-source foundational libraries

Lightning Channel Optimizer

Darius Parvin

Identifies the optimal lightning node placement (channel connections) based on graph analysis of the network topology.

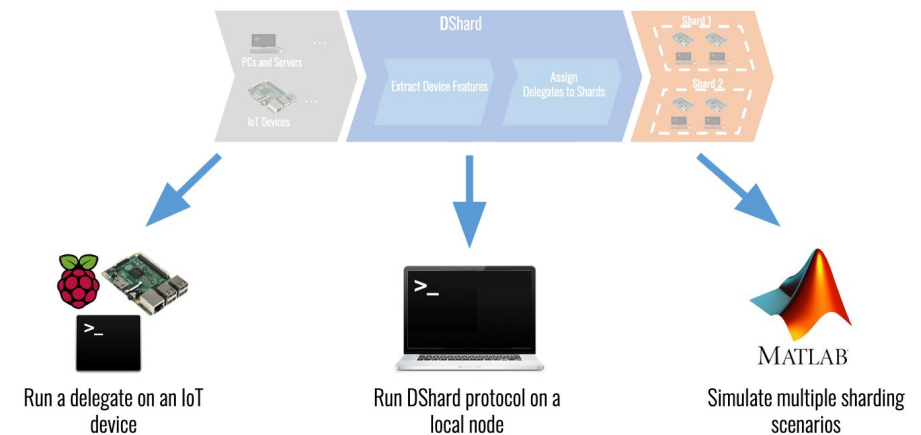


fellows.link/darius

DShard

Yaman Sharaf-Dabbagh

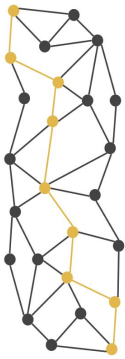
A dynamic sharding framework for the internet of things (IoT), using the IoTeX protocol.



How to you prepare yourself for Security Engineering?

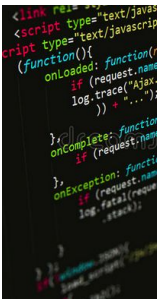


- Prepare a clean & updated **LinkedIn profile**



- **Domain knowledge**

- Computer and network security, threat modeling, vulnerability assessment, incident response, Security protocols, hardening endpoints.
- Critical thinking/Problem solving.
- Relevant areas of expertise: Networks, data analytics, compliance, cloud infrastructure, app development, operating systems.



- **Coding ability, learn one or two of these:**

- | | |
|---------------------|----------|
| - Go | - C++ |
| - Rust | - Python |
| - Javascript | - Java |



- Showcase coding and documentation skills with a **strong GitHub portfolio**

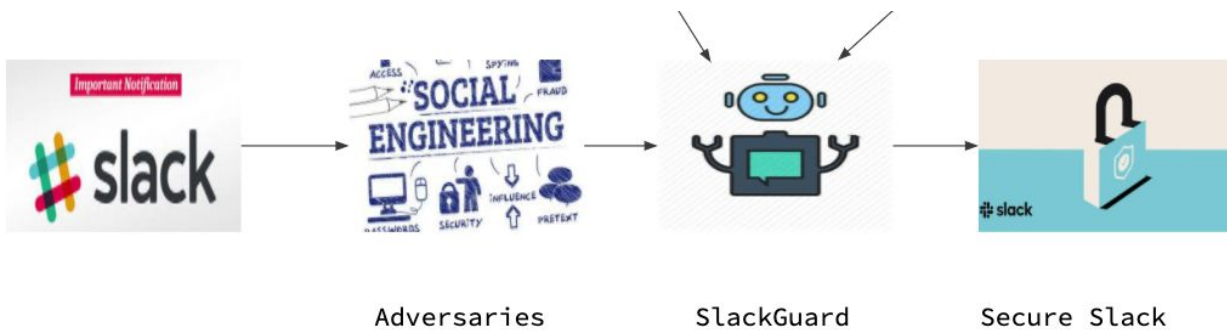
Building a strong portfolio

- Break systems
- Build applications and platforms

SlackGuard

Aashray Aggarwal

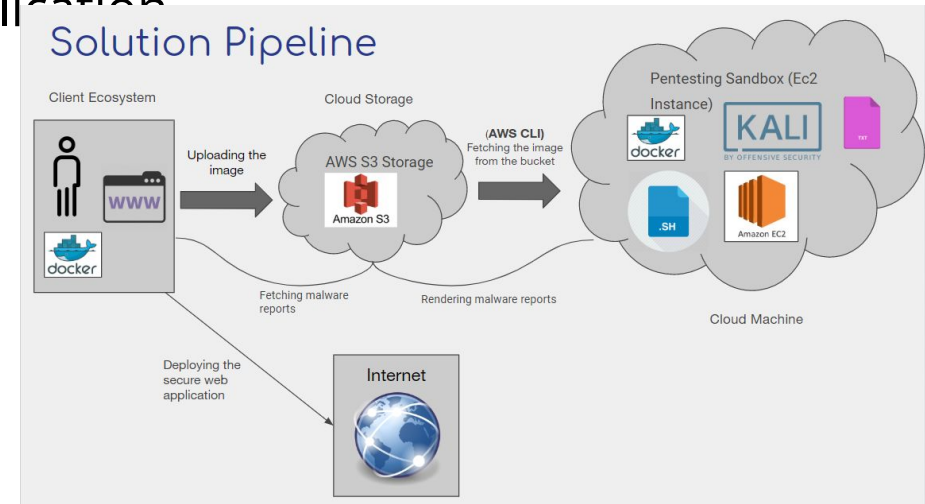
Security bot for Slack



Secure PenBox

Shasheen Bandodkar

A sandboxed cloud penetration testing environment that allows user test web application



Insight Fellows Programs

- Join a network of 3000 Insight alumni
- Short-term commitment, long-term gains
- Need-based scholarships
- Meet, interview, and join top companies

Programs available for full-time roles in Boston, Los Angeles, New York, San Francisco, Seattle, Toronto, and Remote.

Important Dates

Session	Main Deadline	Start Date
Fall 2020	July 20, 2020	Sept 14, 2020

Start your Application

Start today

Admissions Process

- 1 Tell us about your background
- 2 Prepare to showcase your skills
- 3 30-minute video call with our team

Most applicants receive an update within 3 weeks of the deadline.

Start your application today! Final Deadline: Jul 27th*

apply.insightfellows.com

facebook

LinkedIn

okcupid

schireson:

meetup

Zillow

ACTIVISION

jet

VIACOM

DataKind

greenhouse

Square

Capital One

reddit

NBC

STITCH FIX

airbnb



fitbit

ZocDoc

verizon

VECTRA

twitch

climacell

OSCAR

wayfair

Pinterest

JAWBONE

BLACKROCK

Microsoft

TWO SIGMA



JPMorgan

salesforce

amazon

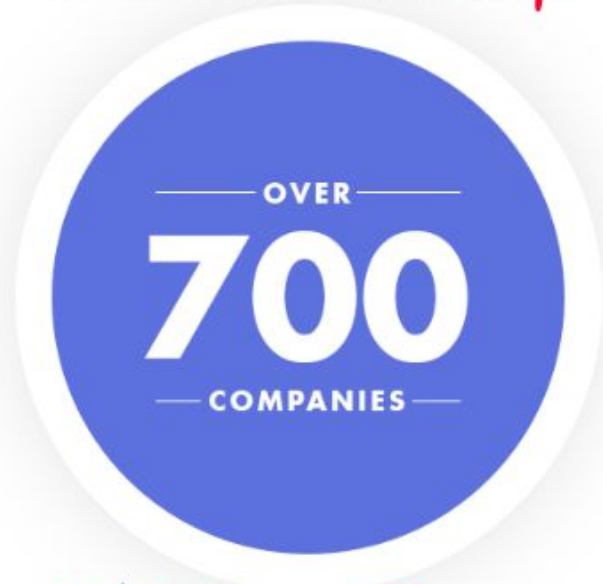
enigma

SAMBA TV

nielsen

intuit

KHANACADEMY



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Yaman, Program Director, Security
yaman@insightfellows.com

Questions?

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