





# Hello World!

I am Shabarish R. You can find me on Linkedln.



### LinkedIn

- Make a LinkedIn Profile.
- Add all details.
- Make sure to post every once in a while.
- Add your certificates.
- Connect with seniors.
- Have a professional sounding personal email.







### Resume

- Simple resume.
- Use Overleaf.
- Make it 1 Page.
- Don't make it verbose.
- Add Extra-Curricular activities.
- Don't write Summary.
- Do 1-2 Internships.











Let's start with the first set of skills





# Skills for Web Development Placement

- Competitive Programming.
- > FrontEnd Web-Dev.
- Backend Web-Dev.
- Databases.
- Hosting.
- > VCS.
- Others [SoftSkills and HR round].





# 1.1. Compet

# Competitive Programming

This matters a lot!











### What to in CP.

- Do all the questions in Arena.
- Practice many problems in LeetCode.
- You should be able to do LC Medium questions.
- > Brush up on DS and Algorithms.
- Try to do these in language of Web Dev.









### What to know in FrontEnd.

- > HTML, CSS, JavaScript.
- > Some SSR framework like Handlebars, EJS.
- > JS Bundlers.
- > ReactJS.
- > TypeScript with React.









### What to know in BackEnd.

- Basics of WebServers.
- Networking Basics.
- REST, GraphQL and other Architectural styles.
- Caching strategies.
- Testing suites.
- Languages.







## Choose a language

- Recommended for Beginners:
  - NodeJS and Python.
- Most used in the Industry:
  - □ Golang, Java, C# Dotnet, Ruby.







# For NodeJS [And others]

- Asynchronous Programming.
- > Event Loop.
- > JS Interpreters.
- Package Management.
- Concurrency Paradigms.
- FileSystem.
- > Middlewares.
- Debugging.







### Basics of Backend.

#### **Protocols**

- TCP/IP.
- HTTP, HTTPS.
- UDP.
- Sockets.
- RTP.
- SSH.

#### Servers

- How to build one.
- How to host one.
- Types like:
  - Forward /Reverse Proxies.
  - Cache Server. etc.





# Basics of Networking.

- TCP/IP.
- DNS.
- Firewalls.
- Encryption.
- IPv4 and IPv6.
- NAT.
- QoS.
- IPSec.







### What to know in Architecture.

- SSR, SSG, CSR or other rendering styles.
- > REST, GraphQL, SOAP, gRPC and API styles.
- Documentation and Extensibility.
- Caching Strategies.
- > OpenAPI.
- Deployment strategies.







## What to know in Testing.

- Unit Testing.
- > Integration testing.
- > E2E Test Automation suites.
- > For NodeJS: Jest.











Let's start with what to know about DBs.





### What to know in DataBases.

- Know the usecases of DBs.
- Types of DBs.
  - SQL, NoSQL, Graph, Vector etc.
- How to determine the DB for your use case.
- Object-Relational Mappers [ORMs].
- Hosted v/s local DB.







# My recommendations

- > SQL DB PostGres.
- > NoSQL
  - MongoDB with Mongoose.
  - Redis Cache.











Let's start with what to know about Hosting.











# My recommendations

- I used to use Heroku and Railway free tiers. Now they're gone.
- Alternatives.
  - □ Glitch [Free].
  - AWS and Google Cloud [Paid].







# Project Recommendations

List of Project Ideas.









# My recommendations

- DBMS with Dashboard.
- Real-Time chat app using Sockets.
- Fullstack application.
  - Social Media. [With Auth].
  - Exam Portal [With Forms].
- ML Application.







## What all is required

- Host the application.
- Add Authentication and Authorization systems.
- Add caching.
- > Build a dashboard.
- Document properly.









What to say and how to say it.











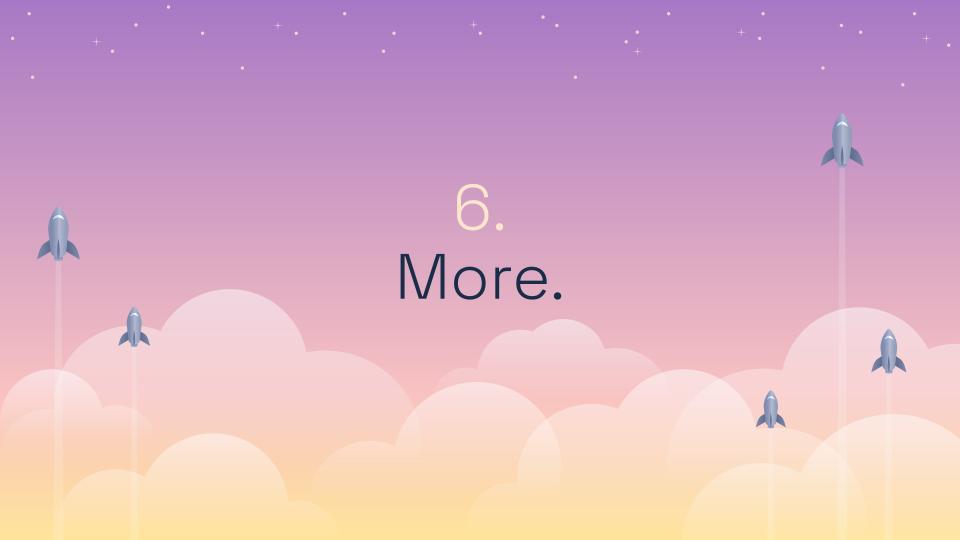
### What to in the HR Round.

- Prepare well and do not take it lightly.
- Do not lie.
- Stay politically neutral.
- Don't give trite answers. Say the truth. Everyone knows you're not gonna stay with the company forever.
- Iron out a narrative.









### Extra

- Browsers and differences.
- WebGL, WebAssembly.
- Compression algorithms.
- Encryption and Hashing algorithms.
- > Security and OWASP.
- $\rightarrow$  Go through "50 most asked questions in x".
- Linux.
- Processor Architectures.





### Extra

- Coding patterns.
- > Dependency Injection.
- > CI/CD [Github].
- Load Balancing.
- Indexing and Searching.
- Containers and Orchestration.
- CLIs.
- > Sorting algorithms.







