

# Mentor Session on Internship/Placements

<https://prod-files-secure.s3.us-west-2.amazonaws.com/bfaa5303-22e2-4140-86b6-070eed7874d1/396e71aa-2466-405f-96b2-3015e62a119e/Untitled.mp4>

## For any job application

### ▼ Create a resume

1. Great things under the belt imp ( Good projects , skills are primary )
2. Always use complete sentences through out the resume  
E.g. instead of 1750 at codeforces  
Achieved a max rating of 1750 on codeforces on Global round 69
3. Include imp keywords for the specific job role and customize for job  
Use  
<https://www.faangtechleads.com/resume/checklist>
4. Use the single column black-colored resume template (Hacker-rank)
5. Use OverLeaf (in-built Latex ) never use docx or wordfiles
6. Experience > real-world projects > technical skills > achievements > extra-curriculars  
( Internship experience is always great )  
Experience + project should be more than 50% of your resume  
No need of certifications
7. Don't use more than 4 lines for skills,  
Languages, Frameworks/libraries, Tools/Softwares

## SKILLS AND EXPERTISE

- **Programming Languages:** C | C++(Proficient) | HTML | CSS | JavaScript | Python | Java | SQL | PHP | React | Django
- **Tools, Libraries and Frameworks:** Jupyter | MySQL | MATLAB | Flask | Git | PyCharm | VS Code | Google Colab | Pandas | Numpy | Scikit Learn | Tensorflow | PyTorch | NodeJS | Web3 | MongoDB | Figma | MS office(Word, Excel, Powerpoint)

## CERTIFICATIONS

- **AZ-201 : Applied Algorithms and Data Structures** Algozenith: Completed the 16-week AZ-201 Applied DSA training program, mastering over 200 technical challenges and earning a certificate for proficiency and dedication in problem-solving.
- **Web Development Bootcamp :** Udemy Completed 66 hours of training, earning a certificate. Designed and structured a website using Bootstrap, HTML, JavaScript, React, Node.js, Firebase, Flask and CSS, with story data stored in MySql.

## POSITIONS OF RESPONSIBILITY

- **Working Committee Head,** Computer Society of India(CSI), Amity University(AUUP), Noida Oct. 2021 - Aug. 2023
- **Master of Ceremony & Student Organizing Team,** International Conference InCITE 2022 & 2023 Mar. 2022 & Mar. 2023

## ACHIEVEMENTS

8. Try including minimum 3-4 projects with each project being descriptive  
Projects should have variability ( desktop apps in pyqt, meaningful full-stack web app or mobile app, performance optimization / object oriented coding in C++, Hardware or OS related projects ) try covering as many domains as possible

Never make clone for projects and never ever use clone keyword in your resume

Don't include more than 4 point for each project

Highlight key words, but don't have too many bold words such that it become distracting

## PROJECTS

### BharatUdyog (SIH 2023 Winning Project)

MERN Stack, Flutter, Dialogflow, ARCore, Firebase, Google Maps, OpenRouteService API, Razorpay, Vercel, Swagger

- Suite of end-to-end digital platforms to connect local Indian businesses with international consumers for Ministry of Communications and Department of Posts.
- Integrated Dialogflow chatbot and ARCore for AR experience. Implemented Email Auth and Firebase Realtime Database for in-app chat.
- Deployed server on Vercel and utilized Swagger for API documentation.

### Aapka Aadhaar (SIH 2022 Winning Project)

Flutter, Firebase, Google Maps SDK, OpenRouteService API, Razorpay

- Developed cross-platform Flutter mobile apps for the Ministry of Electronics and Information Technology to streamline Aadhaar card updation and enrollment.
- Utilized Firebase Realtime Database, Phone authentication and Cloud Storage to store media.
- Integrated Google Maps, OpenRouteService API for route navigation and Razorpay for payment gateway.

### Fashionkart (Flipkart GRiD 5.0 2023)

Cloud MERN Stack, Next, Python, React, Express.js, GraphQL, Apollo, Docker

## PROJECTS

### ImagiFix - Photo Editing WebApp | Vanilla JS, HTML, CSS

 Live —  Code —  Demo

- Imagifix is a photo editing web app leveraging the Canvas API and using Pure JS only for flexible image manipulation.
- Engineered and integrated advanced image manipulation features, including 6 filters, precise cropping tool, rotation and flipping options, and customizable text overlay functionalities.
- Transformed Imagifix into a Progressive Web App (PWA), ensuring full responsiveness, offline functionality, and enhanced accessibility.
- Achieved a perfect score of 100 for adherence to best practices in Imagifix development, as assessed by Lighthouse.

### YumBites Food - Food Ordering WebApp | React, Tailwind CSS, Redux Toolkit, Jest

 Live —  Code —  Demo

- Integrated a live restaurant data API to fetch real-time restaurant data, ensuring up-to-date information for users.
- Optimized performance by incorporating optimization techniques, resulting in a significant 30% reduction in initial page load time.
- Implemented a search bar that employs debouncing to enhance performance by preventing redundant API calls.
- Utilized custom hooks to improve reusability and streamline development processes, resulting in efficient code maintenance.
- Managed state effectively using Redux Toolkit for seamless data management and enhanced user experience.
- Ensured code quality and reliability through comprehensive unit and integration testing using Jest, ensuring a 95% test coverage rate.

9. Experience has the most weightage in resume so aim for internship in 2nd year itself  
( Internshala, naukri.com, yc combinator )

## EXPERIENCE

<b>Pocket FM</b>	Skills - Django, Python, Kafka, Redis, MySQL, AWS	December 2023 - Present
<i>Backend Developer (Intern)</i>		
• Contributed to the growth of <b>PocketFM</b> , India's largest audio OTT platform, serving over <b>100 million users</b> .		
• Enhanced existing APIs with new features, improving performance and scalability.		
• Implemented <b>caching with Redis</b> , optimizing system performance and response times by up to <b>35%</b> for some APIs.		
• Developed A/B Experiments leading to a <b>12% increase in user engagement</b> and a <b>13% increase in retention</b> .		
• Actively participated in debugging and resolving API issues, ensuring a smoother user experience.		
<b>MAQ Software</b>	Skills - React.js, Python, MySQL, PowerBI	May 2023 - July 2023
<i>Associate Software Engineer (Intern)</i>		
• Ensured data accuracy across data streams by creating <b>50+ meticulous test cases</b> , improving data reliability by <b>20%</b> .		
• Automated <b>rollover changes</b> with data pipelines, reducing manual work by <b>30%</b> .		
• Created multiple <b>user-friendly interactive interfaces</b> using <b>React.js</b> .		
• Designed <b>PowerBI reports</b> for a <b>Fortune 500 US multinational</b> , driving actionable insights.		
<b>Scaler Academy</b>	Skills - Data Structures, Algorithms, Debugging, Problem Solving	March 2023 - Present
<i>Teaching Assistant</i>		

## EXPERIENCE

<b>Freelance Frontend Web Developer</b>	July 2023 – December 2023
<i>Freelancer</i>	
• Developed <b>responsive frontends</b> for <b>multiple projects</b> including a <b>swimming pool booking website</b>  , and a website for a <b>Youtuber</b>  , resulting in a <b>30% increase</b> in user engagement and a <b>20% decrease</b> in bounce rate.	
• Designed and deployed a booking form for the swimming pool party booking website, resulting in over <b>12+ bookings</b> within the first month.	
• Worked closely with clients to understand their vision and delivered <b>personalized websites</b> that exceeded their expectations.	
• Utilized <b>SEO best practices</b> to improve the website's visibility, leading to a <b>60% increase</b> in organic search traffic within <b>3 months</b> .	
<b>Deviant Strokes</b>	August 2018 – October 2018
<i>Frontend Developer Intern</i>	
<i>Goa, India</i>	
• Developed design mockups provided by the team into fully functional and <b>responsive</b> websites.	
• Implemented optimization techniques resulting in a <b>30% improvement</b> in website performance and loading speed.	
• Collaborated closely with <b>cross-functional teams</b> to ensure consistency between design and implementation.	
• Created <b>dynamic</b> user interfaces using HTML, CSS, JavaScript and Bootstrap, while conducting thorough website testing and debugging to ensure <b>cross-browser compatibility</b> and resolving <b>15+</b> issues.	

## PROJECTS

10. Leetcode rating generally has more weightage so put your leetcode (2300-2400) rating or if ICPC ( 1800-1900 ) achievements

11. Why are you building the project?

How will you scale the project?

In depth techstack of the project

Impact/Results of the project? (Real traffic is always great)

**Have a personal metric dashboard for your websites**

12. If you don't get a big winter internship, go for a small winter internship and you will get a good summer internship later on.

13. Never make resume more than 1 page

▼ Get a referral ( You won't get a interview without referral )

▼ What happens during a referral

1. You ask for a referral from a person X working in google
2. You get a mail from google, a person X has referred you and using this referral you can apply to 3 positions in this company
3. after getting the apply link from email then only apply for job

1. Have a great linked-in profile

2. Early stage startups can get you opportunities / referrals from linkedin itself

3. Have a personal website

▼ Getting a interview

1. No matter how best the resume, if it doesn't fit the job description it will get rejected

2. Keep your CGPA really high (atleast top 5-6 in your college else it's difficult to get )

3. Start cold mailing to hiring managers, recruiters and small scale startup CTO's

The statistics are 10/15 will revert back out of 350 valid emails from 600 emails you searched for on the internet

4. Targetting mail ids is better than linkedin

5. Practise Interview using ChatGPT, give it your resume and tell it to ask questions

▼ DSA/CP round

1. In any interview round

First verbally explain the brute force approach

Then explain the optimal approach

and after getting the thumb's up, start coding

▼ System design round

1. A Low level design round (Open ended questions and you have to design constraints yourself )

2. A little bit of OOPs knowledge is required

3. A high level system design round
  4. Resources ( Gang of Four & Headfirst design Pattern )
- ▼ HR round