



Interview Readiness Bundle

Create a stunning Dev profile &
ace your next job interview with
this bundle!



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Tips and Tricks to

Build the Perfect Software Developer Resume





The right resume format is all that stands between you and your dream job. And if you haven't updated your resume in a while, it can be a bit difficult to know where to start from. What are the latest resume trends, what font should you use, what type of resume, these are a few questions that might arise. Worry not! We have jotted down some tips and tricks to create a winning resume and land your job.

Things to Include in Your Resume

1

Contact information

Say you have impressed the reviewer or hiring manager with your work and skills, but missed leaving your contact details for the company to get in touch with you. Bummer, right?

The very basic things an exceptional resume contains are the following contact information, in the following order:

- Full Name
- Phone Number
- Email ID
- Links to social profiles like LinkedIn, GitHub, etc.

Pro tip: Add your profile name and hyperlink it to your profile. This way, even if the reviewer takes a printout of your, he/she can search for your profile.

2

Work Experience

Consistency is key. The moment there is a miss in consistency, a not-so-great impression is painted on the reviewers' minds. Consistency highlights your attention to detail.

Include the below information following a consistent format. Use the same format in other sections of your resume as well.

Ex: If you are writing the date as DD, MM, YYYY, write it the same way throughout your resume.

- Add your designation
- Start Date and end date
- Overview of your role
- Specific responsibilities carried out by you
- Key achievements
- Skills and tech used



3

Skills

Reviewers and hiring managers jump right to this section of your resume within the first 10 seconds. So make sure you are listing down all skills they are looking for. You can categorize your skills based on the job you're applying for. Some ways in which you can categorize your skills are:

- Languages
- Frameworks
- Technologies
- Tools
- Databases

4

Education

- College degree / specialization
- College name, place
- Year of graduation
- CGPA* (exclude if low)
- Relevant coursework
- Relevant certificates

5

Other Important Sections

Tailor this part of your resume based on the job description you are applying for.

- Achievements related to the skills required for the job
- Other activities that highlight your soft skills
- Hobbies and interests that highlight skills useful for the job



Chronological Resume

A chronological resume is a resume format that prioritizes related professional experience and accomplishments. It is fitting for candidates with rich, consistent professional experience. This format is also known as “reverse chronological”.

DEVESH GUPTA

MOBILE: +91 XXXXX XXXX | EMAIL: XXXX@GMAIL.COM | GITHUB: @DEVTA | LINKEDIN: DEVESHGUPTA

WORK EXPERIENCE

SOFTWARE DEVELOPER - AEGIS CORPORATION (AUG 2019 – PRESENT)

- Implementation of new services, applications and demonstrating them.
- Contributed to requirements and technical aspects of various development specifications.
- Identified and analyzed process bottlenecks and rectified them.
- Created technical designs and documentations for new applications.
- Presided over daily analysis and design meetings.

INTERNSHIP - ACCRA BUSINESS SOLUTIONS (DEC 2018 – APRIL 2019)

- Pushed code through development, integration and staging environments using GIT.
- Tested functionality of the application code on multiple web browsers.
- Participated in architecture enhancements.
- Supported enterprise releases and maintenance releases.

PERSONAL PROJECTS

SECURE FILE-SHARING APPLICATION (JULY 2019)

Delivered a secure file-sharing service which is a customized version of the popularly available VSFTPD server.

- Created pre-install scripts to run system checks, install and configure the application.
- Developed tools to automatically analyze performance and functionality issues in different versions of QBox.
- Used Wireshark to monitor and resolve issues like packet drops and security protocols.

Skills: Linux commands, OS Concepts, Scripting, Networking Concepts, Network Security

STOCK PORTFOLIO ANALYZER (MAY 2019 - JUNE 2019)

Built a visual stock portfolio analyzer to help portfolio managers make trade recommendations for their clients.

- Implemented the core logic of the portfolio manager and published it as a library.
- Refactored code to add support for multiple stock quote services.
- Improved application stability and performance.

Skills: Java, REST API, Jackson, Interfaces, Exception Handling, Multithreading

SKILLS

LANGUAGES: C++, JAVA, JAVASCRIPT, PYTHON, SQL
FRAMEWORKS: DJANGO, NODEJS, REACTJS, MVC
DATABASES: MYSQL, MONGODB, REDIS
TOOLS: GIT

EDUCATION

TERNA ENGINEERING COLLEGE, NAVI MUMBAI | B.TECH COMPUTER SCIENCE
2015 - 2019

Relevant Coursework:
Computer software architecture, Advance algorithms, Computer networks, Operating systems, Network security, Database management, Object-Oriented Programming with Design Patterns.

ACHIEVEMENTS

- Winner of Smart India Hackathon 2019 Software Edition, for problem statement A17.
- Runner-up in the Kony Hackathon Challenge 2019 conducted by Kony in Chaitanya Bharathi Institute of Technology.
- CodeChef SnackDown19 Online 1B Round Certificate.
- Foundation Level CodeChef Certification in Data Structures and Algorithms.

OTHER ACTIVITIES

- Secured 2nd place in Creative Writing in Resonance 2016 organized by Terna Engineering College.
- Organized debate competition as Event Head in Resonance 2017.
- Volunteered for Swachh Bharat Campaign and Blood Donation Drive organized in campus.

Put your name and contact information at the top.

Highlight your work experience in reverse chronological order (Most recent first).

Add your personal projects.

List your relevant skills.

Include a brief education section.

Mention any other achievements and activities.

Action Words to Describe Your Experience

If you were responsible for a project or an initiative from start to finish, skip “led” and instead use:

Chaired Controlled Coordinated Executed Headed

Operated Orchestrated Organized Oversaw Planned

Produced Programmed

If you developed, designed, or introduced that project into your company, showcase it using:

Administered Built Charted Created Designed

Developed Devised Founded Engineered Established

Formalized Formed Formulated Implemented

Incorporated Initiated Instituted Introduced Launched

Pioneered Spearheaded



If you saved the company time or money,
bring it out in your resume using:

Conserved

Consolidated

Decreased

Deducted

Diagnosed

Lessened

Reconciled

Reduced

Yielded

If your work boosted the numbers of
your company, highlight it using:

Accelerated

Achieved

Advanced

Amplified

Boosted

Capitalized

Delivered

Enhanced

Expanded

Expedited

Furthered

Gained

Generated

Improved

Lifted

Maximized

Outpaced

Stimulated

Sustained

If you managed a team, describe
your responsibilities using:

Aligned

Cultivated

Directed

Enabled

Facilitated

Fostered

Guided

Hired

Inspired

Mentored

Mobilized

Motivated

Recruited

Regulated

Shaped

Supervised

Taught

Trained

Unified

United



If your job included research, analysis, or fact-finding, add weight to your work by using:

Analyzed Assembled Assessed Audited Calculated

Discovered Evaluated Examined Explored Forecasted

Identified Interpreted Investigated Mapped Measured

Qualified Quantified Surveyed Tested Tracked

If you contributed to someone else's project or helped different teams, showcase your qualities using:

Authored Briefed Campaigned Co-authored Composed

Conveyed Convinced Corresponded Counseled

Defined Documented Edited Illustrated Lobbied

Persuaded Promoted Publicized Reviewed

If you achieved something notable, share about it in your resume using:

Attained Awarded Completed Demonstrated Earned

Exceeded Outperformed Reached Showcased

Succeeded Surpassed Targeted



Biggest Resume Mistakes

Misspellings and grammatical errors

These are the resume killers. Always spell-check and proofread. Try printing out your resume, changing the font, or copying it into a blank email. These approaches help you see your words with fresh eyes and can help in catching errors.

Missing email and phone information

If you miss adding your email address and phone number, you might miss out on a job opportunity as your employer would find it difficult to reach you.

Not incorporating keywords that match the job you're applying for

Your resume should include the same keywords that were in the job description you're applying for. If your resume doesn't have the appropriate keywords, it most probably won't get noticed.

Old, Unreadable, or Fancy Fonts

The font you choose has a great impact on the readability of your application. Hence, it is not recommended to use fonts that might be difficult to read or fonts that are too extravagant.

Social Media profiles not related to the job

Only include the social links that are relevant to the job. Do not add your Instagram or Pinterest profile, instead add StackOverflow, Quora, and Medium links in addition to your LinkedIn and GitHub profiles.

Using the same resume for various job applications

Each companies needs and culture are different. Therefore, your resume should be adjusted to each job.

Too long

Your resume shouldn't be longer than a page (at most two pages).



Resume DOs and DON'Ts



Dos

1. Tailor your resume to include details of the job description for each position you are applying.
2. Concentrate on particular outcomes of your job, notable accomplishments, and any recognition received, and think of new ways to frame them.
3. Use data to showcase tangible achievements.
4. Include soft skills as well.
5. Highlight your job title- make sure it stands out
6. Be sure that your formatting will translate properly if converted to a pdf format.
7. Proofread! Proofread! Proofread!



Don'ts

1. Use the same resume to every employer, despite the position being the same.
2. Mention “salary negotiable” or “reference available upon request.”
3. Abbreviate
4. Include a picture
5. Overuse the personal pronouns “I,” “me” or “my.”

Read more interview tips and career guidance for engineers to excel in software development.

[Go to page ↗](#)

Go through Crio's 3-step career services process to get placed or excel in your current dev role.

[Know More ↗](#)





20+ Real-World Java and Python Projects to

Expand Your Dev Portfolio





Chatbot Song Recommender System


 Python
 Intermediate
 50 hours

Author

Sagar Sehgal

Collaborators

Kevin Paulose **Mridula Reddy**

We come across various chatbots while browsing through sites. Have you ever wondered how they work? These chatbots are already fed with data based on the variety of questions that might occur. But, there might be a few instances where the bot cannot answer all questions, yet, they learn from experience. However, is it possible to build something which could analyse your emotions without actually using AI? The answer is yes!

What you will be doing

1. Set up cakechat chatbot server
2. Analyse the tone of the user
3. Set up song recommendations
4. Map the workflow of the chatbot
5. Complete building the chatbot

Skills you'll gain

 Python
 API
 Chatbot
[Start building now ➔](#)


Python



Data Analysis using Big Data Tools


 Python
 Intermediate
 20 hours

Author

Abid Merchant

Collaborators

Ayush Kumar Shaw **Mridula Reddy**

Big data is changing the way businesses operate across the world. It refers to gathering and analyzing data sets that are too large and complicated for conventional data processing and data management applications. In this project, learn how to analyze Big Data using HDFS (Hadoop Distributed File System) and Pyspark to fetch the NYC yellow taxi dataset, load and process it, and further convert it into a format that can be stored and queried on a MySQL database.

What you will be doing

1. Set up the environment
2. Get the dataset
3. Transform the dataset
4. Load data to MySQL
5. Automate the flow

Skills you'll gain

Pyspark
Jupyter
HDFS
[Start building now ↗](#)


Python



CLI Based Chat Tool



Python

Intermediate

35 hours

Author

Bhargava N Reddy

Collaborators

Ayush Kumar Shaw

Kiran Suresh

Are you worried about how social media applications like WhatsApp, a part of our daily life, might be using your data? If yes, then why not build a chat app yourself? Learn the concepts of multithreading and sockets by creating a CLI-based multi-user, multi-room chat app using the threading and socket libraries of Python. This app runs via the command line giving you the "Hacker" feels. So, start building your tool today and communicate with your friends!

What you will be doing

1. Learn Multithreading in Python
2. Learn Socket Programming in Python
3. Implement a chat tool in Python
4. Incorporate multiple chat room functionality into the chat tool
5. Save chat history on the server
6. Connect to the chat tool over the internet

Skills you'll gain

Python

Socket Programming

Multithreading

Start building now



Python



Web scraping Facebook bot


 Python
 Intermediate
 25 hours

Author

Ayush Kumar Shaw

Collaborators

Mridula Reddy **Kiran Suresh**

Are you a social media geek? Do you like sharing memes? Let's say you found a meme on some platform and wanted to share it on your Facebook wall. Normally, you'd take a screenshot and post it. Doing this once or twice is fine, but taking a screenshot every time you find something cool is a tedious task. However, there's a smarter way to do this. Write a script that could scrape memes off a source, and send them along automatically to go sit on your Facebook wall.

What you will be doing

1. Web scrape popular posts from a subreddit
2. Publish posts in a Facebook group or page
3. Automate periodic meme updates
4. Publish to GitHub
5. Deploy the application

Skills you'll gain

Selenium
[Start building now ➔](#)


Python



Cricket alerts in Python



Python

Beginner

15 hours

Author

Mridula Reddy

Collaborators

Sridher Jeyachandran

Kiran Suresh

If you are a cricket fan, you know the excitement of sharing cricket score updates with your family and friends. But manually checking scores and going to the messaging app every now and then can be annoying at times. Well, that won't be the case anymore. Get time-to-time updates sent automatically to you with this project. Stay updated and save time!

What you will be doing

1. Prototype Score Alerts
2. Fetch the live scores and parse data
3. Send notifications
4. Send recurring notifications
5. Spice it up by making it a chrome plugin
6. Publish to GitHub

Skills you'll gain

REST

HTTP

Jackson

[Start building now](#) ↗



Python



Weather Forecasting App



Python

Beginner

15 hours

Author

Jayvardhan Rathi

Collaborators

Ayush Kumar Shaw

Mridula Reddy

Build a super handy weather forecast application using Streamlit, a Python framework for creating web UI components, OWM (Open Weather Map) to fetch the weather data, and Matplotlib, to display the data graphically. Get regular weather updates, customized to your needs.

What you will be doing

1. Create basic Streamlit layout
2. Utilize the PyOWM API
3. Make the bar graph and line graph charts
4. Add the weather updates
5. Deploy the project on Heroku

Skills you'll gain

PyOWM

Streamlit

Matplotlib

Data Visualization

Start building now



Python



YouTube Transcript Summarizer



HTML, CSS, JavaScript, Python, Flask

Intermediate

30 hours

Author

Yakshit Ravindra Jain

Collaborators

Ayush Kumar Shaw

Kiran Suresh

Deep Learning-Natural Language Processing and Web Development are two favorite preferences of beginner Python developers. But what if you could not only learn both of these concepts but also create a project that you can use in your daily life? Create a Chrome extension that summarizes a YouTube video from its transcripts. This project is a time-saver for YouTube viewers and a remarkable addition to your dev portfolio.

What you will be doing

1. Get Started with the back-end
2. Get a transcript for a given video
3. Perform text summarization
4. Create a REST API endpoint
5. Get started with Chrome Extension
6. Build a User Interface for Extension Popup
7. Display summarized transcript

Skills you'll gain

Natural Language Processing

Start building now



Python



Stack Overflow Auto-Search Tool


 Python
 Beginner
 15 hours

Author

Ayush Kumar Shaw

Collaborators

Mridula Reddy **Kiran Suresh**

As a developer, you might have entangled in one or the other type of error very often. In such cases, you either google the error or look for it in StackOverflow. Wouldn't it be cool if, based on the errors your code throws, you could automatically search those errors on Stack overflow, and open the answers in new tabs? That way, you save the effort of finding out the error and looking for an appropriate answer. That's exactly what you'll be building in this project.

What you will be doing

1. Proof of Concept
2. Extract error message
3. Auto-search for Stack Overflow threads
4. Spice it up!
5. Publish to GitHub

Skills you'll gain

REST

HTTP

[Start building now ➔](#)


Python



Exploratory Analysis of Geolocation Data


 Python
 Intermediate
 15 hours

Author

Anant Shukla

Collaborators

Kevin Paulose **Kiran Suresh**

Imagine you moved to a new city and are yet to find accommodation. You might have a few preferences and tastes and it would be great if you found a place to stay close by to your choices. But how often is that possible? Well now, you can build an app using K-Means Clustering to find the best location to stay while classifying it based on preferred facilities and budget.

What you will be doing

1. Data Exploration and Visualisation
2. Run KMeans Clustering on the data
3. Get Geolocation Data
4. Plot the locations on a map

Skills you'll gain

REST API

K-Means Clustering

Data Preparation

Data Visualisation

[Start building now ➔](#)


Python



Instagram Automation Tool



Python, HTML, CSS

Beginner

15 hours

Author

Anurag Sharma

Collaborators

Kevin Paulose

Kiran Suresh

You use Instagram on a day-to-day basis. You follow some person, like, or comment on some post whenever you're online. This could be automated using a few Selenium automation techniques. Interact with the webpage using Selenium web driver and perform actions like a real user. Sounds interesting right. Explore the project to know more.

What you will be doing

1. Getting Started: Login in Instagram
2. Exploring posts on the explore page
3. Fetch media, logging, and exception handling
4. Publish to GitHub
5. Deploy the application

Skills you'll gain

Selenium

Automation

Python

Start building now



Python



Machine Learning Preprocessing CLI


 Python
 Intermediate
 30 hours

Author

Utkarsh Gupta

Collaborators

Kevin Paulose **Kiran Suresh**

If you've ever used Machine Learning for a project, you know half of it is preprocessing i.e., cleaning the data by feature scaling and removing null values, so as to get accurate predictions. However, this is often a tedious task. This project lets you automate the process as you will be building a command line interface application. This application will take the input of the dataset, preprocess the entire data in stages, and gives cleaned data as an output. Try it now!

What you will be doing

1. Input the Dataset
2. Data Description
3. Handle NULL Values
4. Encode Categorical Data
5. Feature Scaling
6. Download the dataset

Skills you'll gain

OOPS
Pandas
Exception Handling
[Start building now ➔](#)


Python



Python interpreter

Python or any programming language

Intermediate

25 hours



Author

Ayush Kumar Shaw

Collaborators

Mridula Reddy

Kiran Suresh

Interpreters are software tools that convert high-level language code into machine language. It runs smoothly without you worrying about how that happens. This is why most developers consider interpreters as black boxes. But are you curious to know how they work? Get started with this project and understand the various working principles on which the interpreter depends.

What you will be doing

1. Parse and validate simple numerical assignments
2. Validate your variables
3. Evaluate and Validate Expressions
4. Improve efficiency
5. Publish to GitHub

Skills you'll gain

String parsing

Infix expression evaluation

Lookup tables

Start building now ➔



Python



House Price Prediction



Python

Beginner

15 hours

Author

Ashwini Kumar

Collaborators

Mridula Reddy

Ayush Kumar Shaw

Linear regression is an algorithm used to predict values that are continuous in nature. And if you are a newbie to Machine Learning, this project is the best for you. Explore various attributes of a dataset and use a part of it to train the algorithm. Use this to predict the data of the rest of the dataset.

What you will be doing

1. Import libraries and dataset
2. Data exploration and preprocessing
3. Model Implementation
4. Model Testing

Skills you'll gain

Data Visualization

Basic Data Preprocessing

Model Implementation

Start building now ➔



Python



Discord bot for stocks



Python

Intermediate

25 hours

Author

Ayush Kumar Shaw

Collaborators

Mridula Reddy

Kiran Suresh

The stock market is known for its volatility and has great potential to be analyzed with the help of technology. The quicker you analyze, the better you understand. This leads to you making more informed decisions. Create a Discord bot that gives you hourly and daily updates on stocks of various companies. Analyze faster and understand better with this app and stay updated!

What you will be doing

1. Prototype the Discord stock bot
2. Set up EOD stock updates
3. Provide hourly updates of stocks of a company
4. Set up daily trade updates
5. Retrieve historical stock data
6. Spice it up!
7. Publish to GitHub
8. Deploy the bot

Skills you'll gain

Pandas

Plot.ly

[Start building now ↗](#)



Python



Visualising and forecasting stocks using Dash


 Python
 Intermediate
 25 hours

Author

Sujay Goswami

Collaborators

Kiran Suresh **Kevin Paulose**

Have you ever invested in stocks? If yes, you know you should consider the statistical factors before deciding on which company to invest in. In this project, create a single-page web application using Dash to show the company information and stock plots based on the stock code you give. Also, predict stock prices for the data you have entered using Machine Learning models.

What you will be doing

1. Get started
2. Create a basic website layout
3. Style your application
4. Generate company info and graphs
5. Create the machine learning model
6. Deploy the project on Heroku

Skills you'll gain

Dash Python
Data visualisations
Machine Learning
Web Development
Start building now

Python



WhatsApp APK for stickers



Python

Intermediate

25 hours

Author

Ayush Kumar Shaw

Collaborators

Mridula Reddy

Kiran Suresh

WhatsApp stickers have become incredibly popular in recent times. You come across various new stickers in your chats every day. There are tons of stickers available to show how you feel. Why not have these personalized? Dive into this project and create your own stickers using Selenium.

What you will be doing

1. Prototype WhatsApp Sticker Generation
2. Convert text input into handwriting font using selenium
3. Refine the obtained Image
4. Integrate components
5. Publish to GitHub

Skills you'll gain

Selenium

Android basics

[Start building now ↗](#)



Python



Multiplayer Game – Connect4



Python

Intermediate

25 hours

Author

Apoorv Goyal

Collaborators

Kevin Paulose

Kiran Suresh

You might've played many multi-player games. Do you know what happens behind the scene? Learn the fundamentals of networking and game design by building this project. Connect 4 is a turn-based two-player game and it comes in different variants. The rule of the game is to get 4 coins of the same color in a line. This line can be from left to right, top to bottom, or diagonal. Learn the fundamentals of PyGame, Sockets, and game development with this project.

What you will be doing

1. Create Game UI and UX
2. Implement game logic
3. Establish communication
4. Add scoreboard functionality

Skills you'll gain

Pygame

Game Development

Networking Fundamentals

Socket Communication

Game Engine

Start building now ↗



Python



Contact App Android



Java, SQLite (basic DBMS queries)

Beginner

15 hours

Author

Aniruddha Guin

Collaborators

Mridula Reddy

Ayush Kumar Shaw

The main aim of this project is to build a Contact Application that will allow you to register/login, locally store contact details such as name, phone number, contact photo, and other details. It will also help you in deleting/managing contacts in a simpler way. Moreover, you can make calls too with this application. This project employs the usage of the SQLite3 database for the local storage of data.

What you will be doing

1. Get the concepts ready
2. Set up the main project
3. Register and Login with authentication
4. Recycler view adapter and list population
5. Create contact details activity

Skills you'll gain

Java

Custom Recycler Views in Android

SQLite

Start building now



Java



bFit-A Cognitive Game



Core Java, Multithreading with concepts of Android

Intermediate

30 hours

Author

Dhananjay

Collaborators

Mridula Reddy

Kevin Paulose

You do tons of physical exercise to stay in shape. But, how do you keep your brain in shape? That's where the cognitive games come into the picture. Challenge your brain and discover how far it can go. Improve your memory, thinking, and logical reasoning skills. Build a game where you'll have to follow along and click the colored (green) tiles as they keep popping. There will be a scoreboard keeping track of how well you click. Start building your cognitive game today!

What you will be doing

1. Environment setup
2. Create Main UI
3. Game Logic
4. Game's introduction screen
5. Create the splash screen
6. Build for release

Skills you'll gain

Java

Custom Recycler Views in Android

SQLite

[Start building now ➔](#)



Java



Customer Relationship Manager



Java, HTML, CSS

Advanced

75 hours

Author

Shourya Roy

Collaborators

Kevin Paulose

Kiran Suresh

Ayush Kumar Shaw

Customer Relationship Manager web application is widely used by managers to store, retrieve and modify their customers' information. In this project, you will be building a similar application. After completion, you will learn how to use CRUD (Create, Read, Update and Delete) operations. You will also be familiarised with HTML, CSS languages by then. The main context of this project is to help you learn to build a web-based CRUD application using Spring MVC, Hibernate (ORM framework), and MySQL (for managing RDBMS).

What you will be doing

- 1. Get Started
- 2. Create a new project and database table
- 3. Create JSP pages
- 4. Create entity class
- 5. ORM framework
- 6. Create controller class
- 7. Create service classes
- 8. Create DAO classes
- 9. Run the application

Skills you'll gain

Spring Framework

Spring Core

Spring MVC

Hibernate

JDBC

JSP

ORM framework

Maven

HTTP

MySQL

Start building now



Java



Notes & Password Manager



Java, OOPs

Beginner

20 hours

Author

Atanu Paul

Collaborators

Ayush Kumar Shaw

Mridula Reddy

You might've used some post-it notes or a daily planner to keep track of your day-to-day activities. It helps you organize and prioritizes your tasks. You might've also had a place to store all your passwords. However, these two activities are usually overlooked in today's digital age. You can see various applications on app stores for these activities. So, instead of having and maintaining two different apps on your phone, build a single app that is capable of managing both note-taking and password management. Take notes anytime and generate very strong passwords for the security of your account.

What you will be doing

1. Environment setup
2. Authentication with Firebase
3. Note Management
4. Password Management

Skills you'll gain

Android Basics

Firebase with Java

Start building now ➔



Java



Library Management System


 Java
 Intermediate
 40 hours

Author

Rhythm Sehgal

Collaborators

Mridula Reddy **Ayush Kumar Shaw**

Management systems are used in all institutions. Create a Library Management System to keep a record of all the books present in the library. Perform various operations like issuing books, advanced search. By end of the project, apart from learning to write clean modular code using Java and OOPs concepts, you will also learn some major concepts such as Serialization, deserialization, and CRUD (Create, Read, Update, and Delete) operations. This project will empower you to build management apps that are super popular these days.

What you will be doing

1. Get Started
2. Add and delete
3. Search
4. Issue book
5. Serialization and Deserialization using Files

Skills you'll gain

Java Collections API
Serialization
Deserialization
[Start building now ➔](#)


Java



Breakout Ball Game

 Java
 Intermediate
 12 hours


Author

Shourya Roy

Collaborators

Kevin Paulose **Kiran Suresh**

Java is widely used by game development companies and for creating mobile games. Build a game as a primary goal to hit and clear the brick wall that covers the top third of the screen with the help of a ball and paddle. The ball bounces off the two sides and the top of the screen. You lose the game if the ball touches the bottom of the screen. The project makes use of beginner-level Java concepts like AWT, Swing, JFrame, JPanel, etc. Excited to try this project?

What you will be doing

1. Getting Started
2. Game terminal
3. Gameplay
4. Design the props
5. Play the game

Skills you'll gain

 Java Swing
 Java AWT
 JFrame
 JPanel

[Start building now ↗](#)



Java



QuizUp – A Quiz Application



Java Basics, Android Basics

Intermediate 60 hours

Author

Atanu Paul

Collaborators

Mridula Reddy

Ayush Kumar Shaw

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Java

STAR TECHNIQUE

To Ace Interview Questions with Ease





You're in a job interview and are pretty confident with your resume and the way you've answered the questions so far. Suddenly, you hear the interviewer say "Tell me about a time..." and your heart sinks a bit. Though this question sounds simple, under the pressure of the interview, it is possible to give an unstructured response and miss out on a few notable details.

While potential employers are always concerned with your hard skills as well as past performance in a job, all that can be found on your well-structured resume. The key to acing an interview always comes down to telling significant stories of your past achievements. But do you scuffle while trying to concise answers to such questions? Are you not sure on how to share your achievements without bragging? Trust us, we've all been there.

Though these questions are tough to answer, there is a way to crack them. But how? There is a strategy with which you can come up with impressive answers to let the hiring manager know that you're the right candidate for the job. It is called the STAR method.

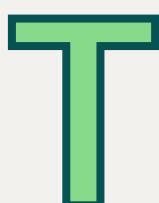
STAR stands for **Situation, Task, Action, Result**. The objective of this method is to provide a clear to-the-point structure while answering interview questions, and to ensure that the interview proceeds as effortlessly as possible.

Let's get down to the nitty-gritty of how to answer a competency question using the STAR technique.

While answering a question, begin by **describing the situation** you were in at the time. This situation can be drawn from past experiences at work, during college or any other such event. Share all relevant details and set the stage like what happened, who was involved, how did you figure it out and where was the issue.



Situation



Task

Describe **your role or responsibility in the situation** like - did you overtake the task on your own or was it assigned to you?

The task should be specific while ensuring you highlight any challenges you might have faced. This task could be something as simple as fixing a bug or as complicated as building everything from scratch as long as it had to be done to fix the situation.

At this stage, you explain **what exactly you did to finish the task**. Even if the action was carried out by a team, be sure to focus on your efforts and contributions to show the interviewer you demonstrate the specific skills while performing the task.

Pro tip: Instead of saying, "We did" say "I did"



Action



Result

Lastly, explain the **result of the action** you have taken on the situation on a **positive note**. This will help throw a spotlight on your accomplishments and learnings.



Building your answer

Most of the competency-based questions have a telltale. They usually begin with:

- Give me an example of
- Tell me about a time when
- Describe a
- Have you ever
- What do you do when

Sharing your answer in a captivating and easy-to-understand way with all the necessary details is the key. Let's look at some examples:

"Tell me about a time when you performed well under extreme pressure."

Situation: Begin with describing the situation

At my current job, a few months ago, one of my colleagues had an emergency and the work was left unfinished.

Task: Next step would be to describe the task

I was handed over the project and had to complete it with the deadline being only a few days away.

Action: Taking action to solve the problem

Upon my request, my weekly goals were reduced. I could allot my time working on the project more efficiently. I had delegated my tasks to my other teammates.

Result: Lastly, the result

I was able to dedicate my time and resources on the project which had to be finished on priority and I did complete it on time. The end result was fruitful.



"Tell me about a time you failed at a task you were assigned."

Situation:

I was managing a project for one of our clients and was keen to impress them. I put together a project proposal to deliver the work in less time than specified as I thought it was doable.

Task:

The project took longer than expected and there was no way I could meet the deadline. I decided to explain to the client the entire scenario.

Action:

I called up our client and asked him for an extension on the delivery date. Though they weren't happy about it, they gave me and extended the deadline of a week.

Result:

I was able to deliver the project on time of the extended deadline. However, this situation made me realize I should be more conservative while giving a time estimate.



Similar questions to prepare for



Give me a specific example of a time when you used good judgment and logic in solving a problem.

Tell me about a time when you had too many things to do and you were required to prioritize your tasks.

Describe a time when you were faced with a stressful situation that demonstrated your coping skills.

Describe a time when you anticipated potential problems and developed preventive measures.

Give me an example of a time when something you tried to accomplish and failed.

Tell me about a time when you delegated a project effectively.

Use the worksheet below to structure your answers:

S Situation	Explain the situation you faced.
T Task	Explain your task or what you had to do. Focus on your responsibilities.
A Action	Explain the actions you took to overcome the challenges you were faced with.
R Result	Explain the results of your actions. What did you learn?

Mistakes to Avoid



Not answering the question at all

If you haven't ever faced a situation your interviewer has asked you, come up with an answer by imagining yourself in the situation and what you would have done.

Getting defensive if you are asked about a time when you failed

Interviewers ask a variety of questions to analyze your answers. If asked about your failures, try owning up to your mistakes and talk about how you turned that situation into a learning experience.

Under-preparation

Always prepare for the interview with the possible questions. Do not answer particularly hard questions without thinking for a moment first. Collect your thoughts and answer in a clear and concise way.

Lying about your past experiences

Never fabricate your past experiences or how you have handled them. Always be genuine on how things went and how you dealt with them.



Best way to answer



Study and master the STAR technique

This technique will help you gather your thoughts and come up with interesting answers and impress your interviewer.

Be prepared

Have a solid set of answers to some of the most common questions which highlight some of your best skills and characteristics.

Include both positive and negative answers

It is necessary to demonstrate how you have achieved positive results out of negative circumstances.

Focus on details

Minute details hold a lot of importance. Stress on such details and any tangible results you might've achieved during the process.

Be concise

Keep your answers short and to the point showcasing your strengths and unique talents. Do not add irrelevant details.

Keep the answers conversational

A 2-way conversation is a memorable interaction for the interviewer make sure your answers urge them to ask more questions.

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