

# MERN Stack Resume Builder

The MERN Stack Resume Builder is a sophisticated web application designed to streamline and enhance the resume creation process. It goes beyond traditional builders by offering a dynamic and interactive experience, integrating live previews, real-time ATS (Applicant Tracking System) scoring, and intuitive analytics to help users craft optimized, job-winning resumes.

# Revolutionizing Resume Creation

In today's competitive job market, a compelling resume is crucial. Our MERN Stack Resume Builder empowers users with tools that not only simplify the creation process but also provide critical insights into resume effectiveness.



## Live Preview & Editing

Experience real-time updates as you type, ensuring your resume looks perfect before you save.



## Real-time ATS Scoring

Get instant feedback on your resume's compatibility with Applicant Tracking Systems, helping you optimize for success.



## Personalized Dashboard

Manage and track multiple versions of your resume with ease, all from a centralized user dashboard.

# Key Features at a Glance

The MERN Stack Resume Builder is packed with features designed to provide a comprehensive and efficient experience from start to finish.

## Seamless User Experience

- Intuitive Home Page with clear navigation.
- Detailed About & Contact Pages for support and information.

## Dynamic Resume Building

- Live typing interface with instant preview updates.
- Real-time ATS scoring and visual graphs for immediate feedback.
- Interactive domain and skill analysis with live graphs.

## Robust Management & Analytics

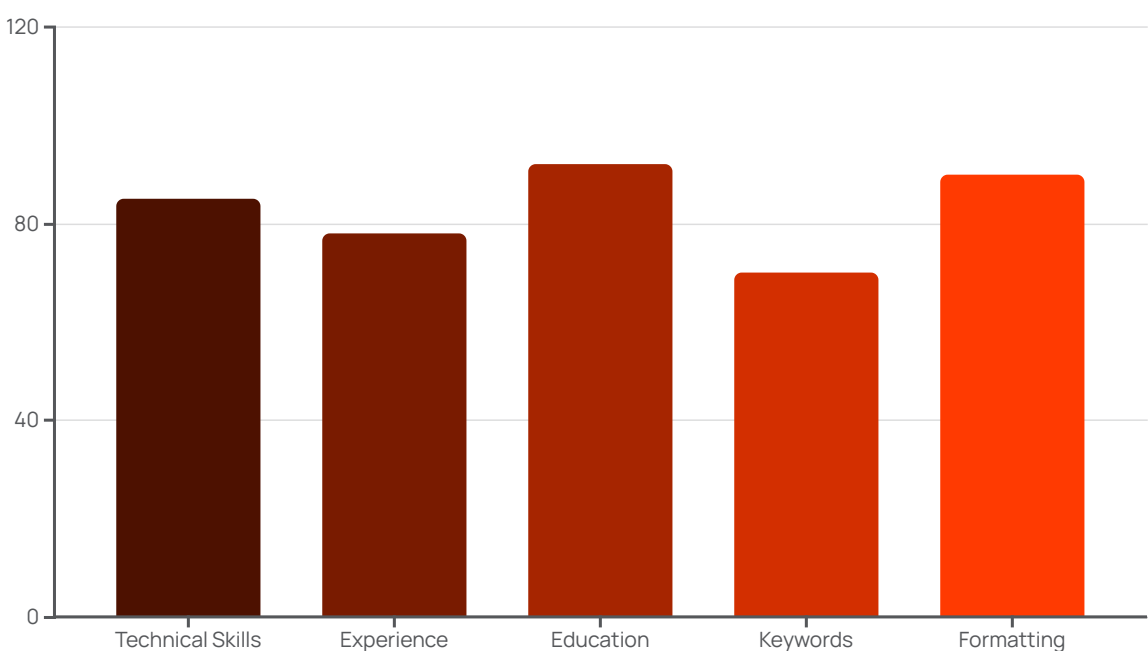
- Personalized User Dashboard for managing saved resumes.
- In-depth analytics for saved resumes, including domain-wise scores.
- Professional PDF/Word export for easy sharing.

## Secure & Modern Authentication

- Flexible sign-up/login options: Google, GitHub, or manual.
- Utilizes OAuth and JWT for secure access.

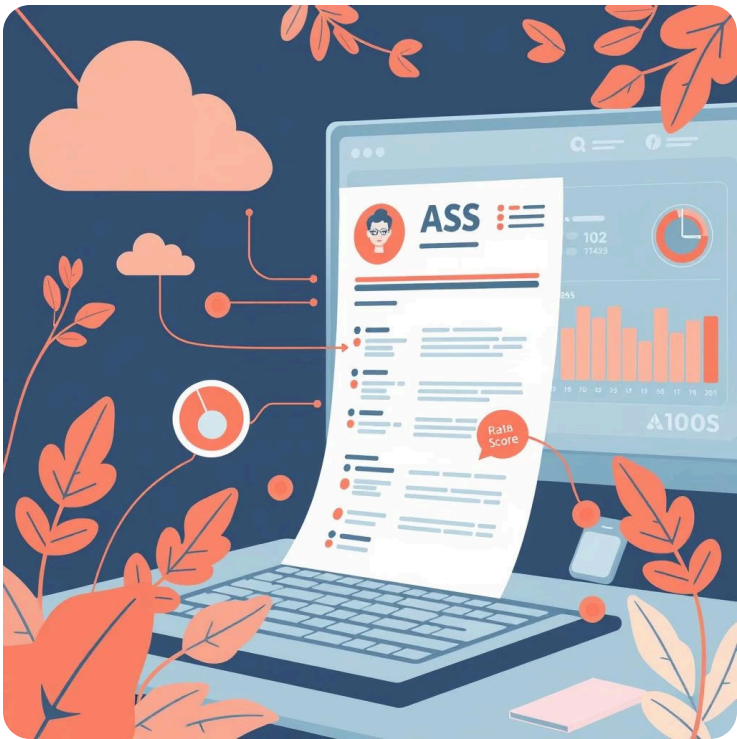
# ATS Scoring and Domain Analysis

Our innovative ATS scoring mechanism and domain analysis tools provide unparalleled insights, helping users fine-tune their resumes for optimal performance against automated screening systems.



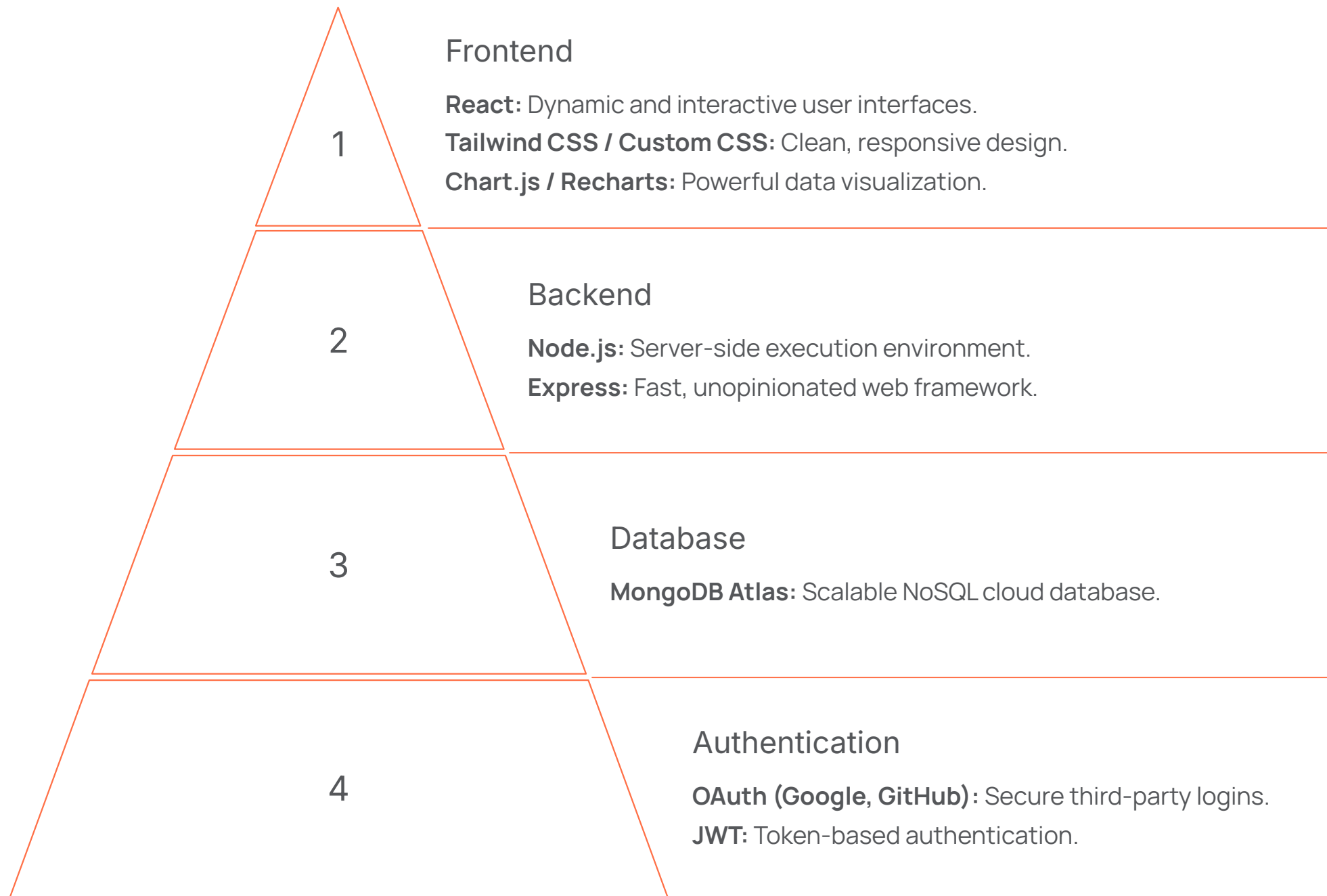
The bar chart above illustrates a sample ATS score breakdown by domain. Users receive a score for various sections like "Technical Skills," "Experience," and "Education," alongside specific feedback on areas for improvement. This data empowers them to make targeted adjustments, significantly increasing their chances of passing initial ATS screenings.

Beyond overall scores, the platform tracks strong and weak domains, providing interactive graphs that allow users to visualize their resume's strengths and weaknesses at a glance.



# Under the Hood: Our Robust Tech Stack

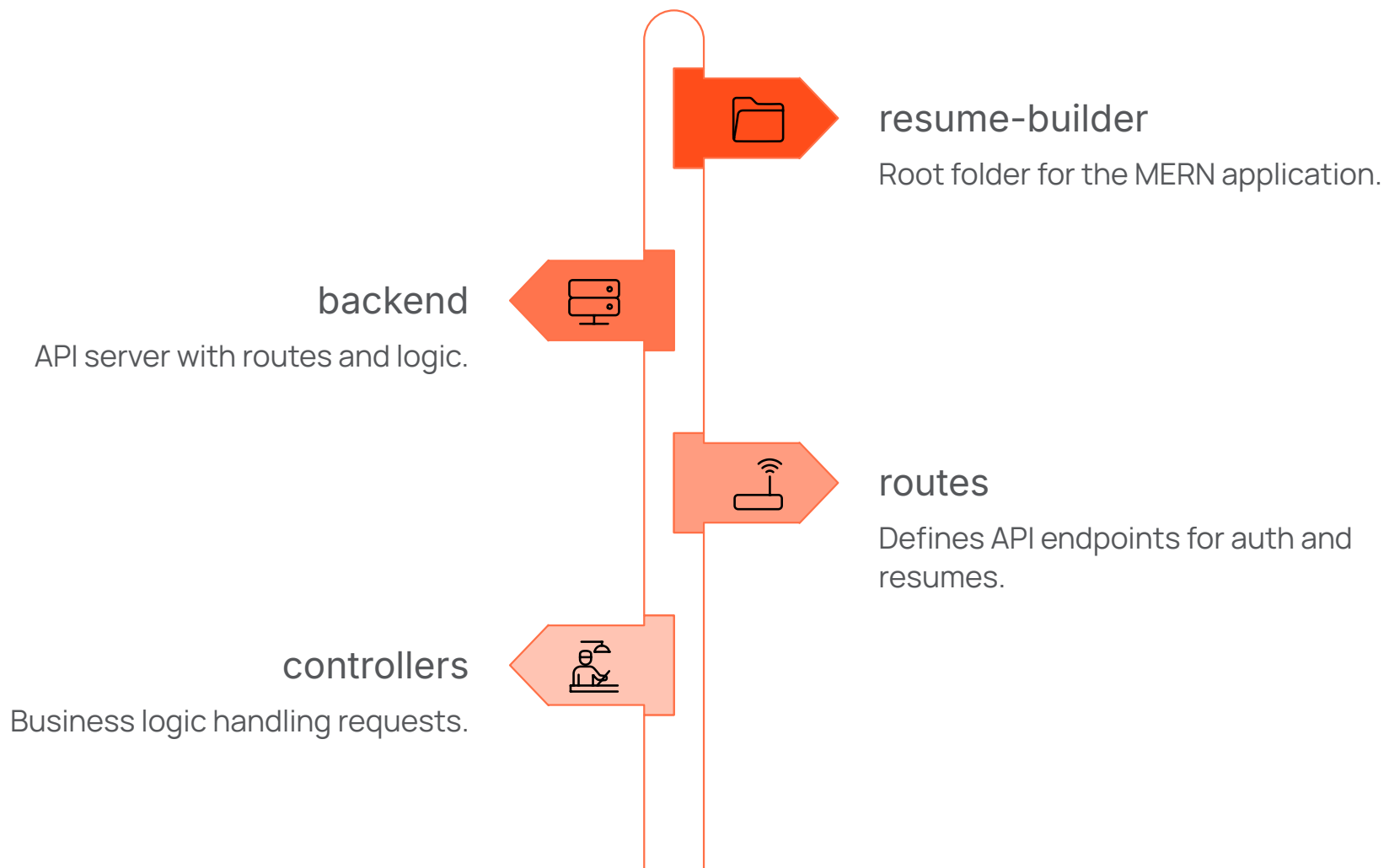
Built on the robust MERN stack, our resume builder leverages modern web technologies to deliver a fast, responsive, and secure application.



**Key Libraries & Tools:** `axios` (HTTP requests), `jsPDF` (PDF generation), `pdf-parse`, `pdfplumber`, `docx` (Word document handling), `FPDF`.

# Project Architecture

The application follows a clear, modular structure, ensuring maintainability, scalability, and efficient development.



## backend/

- `routes/` # API routes (auth, resumes, scoring)
- `controllers/` # Business logic
- `models/` # MongoDB schemas
- `app.js` # Express server

## frontend/

- `src/`
  - `components/` # Reusable UI components
  - `pages/` # Home, About, Contact, Dashboard, Resume Creator
  - `services/` # API service calls
  - `App.js`

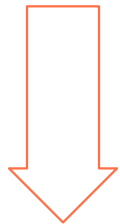
# Using the Application

The MERN Stack Resume Builder is designed for intuitive use, allowing users to effortlessly navigate from account creation to resume export.



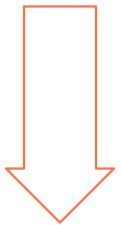
## Access the App

Open the application in your web browser.



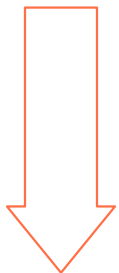
## Authenticate

Sign up or log in using your Google, GitHub account, or a manual registration form.



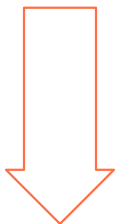
## Create Your Resume

Navigate to the "Create Resume" section and begin typing your details.



## Optimize & Refine

Observe the live preview as you type and utilize real-time ATS scoring and visual graphs to optimize your resume.



## Save & Download

Save your resume to your dashboard for future edits and download it as a PDF or Word document.

# API Endpoints

Our RESTful API provides comprehensive endpoints for user authentication, resume management, and ATS scoring, forming the backbone of the application's functionality.

<b>Authentication</b>	<ul style="list-style-type: none"><li>• <code>POST /api/auth/login</code> – User login</li><li>• <code>POST /api/auth/signup</code> – User registration</li></ul>
<b>Resume Management</b>	<ul style="list-style-type: none"><li>• <code>GET /api/resumes</code> – Fetch all user resumes</li><li>• <code>POST /api/resumes</code> – Create a new resume</li><li>• <code>GET /api/resumes/:id</code> – Fetch details of a single resume</li></ul>
<b>ATS Scoring</b>	<ul style="list-style-type: none"><li>• <code>POST /api/score</code> – Generate ATS score for uploaded/created resume</li></ul>

These well-defined endpoints ensure seamless communication between the frontend and backend, facilitating all the interactive features of the resume builder.

# Future Vision and Contributors

We are committed to continuously enhancing the MERN Stack Resume Builder, adding more powerful features to empower job seekers globally.

1

## Multi-Language Support

Expanding the platform to support resume creation in multiple languages, catering to a global user base.

2

## AI-Based Suggestions

Integrating AI to provide smart, context-aware suggestions for content, keywords, and formatting.

3

## Customizable Templates

Introducing a drag-and-drop interface for highly customizable resume templates, offering more design flexibility.

4

## Shareable Public Links

Allowing users to generate shareable, live public links for their resumes, simplifying the application process.

## Our Dedicated Contributors:

**GopalaJosyula Siva Satya Sai Bhagavan**

Their expertise and dedication have been instrumental in bringing this project to life.