

Nagarjuna GS

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Summary

Aspiring backend developer with hands-on experience in full-stack development, specializing in **Node.js**, **Express.js**, and **Next.js**. Strong foundation in building dynamic, efficient web applications with a focus on server-side logic, APIs, and database integration. Proficient in version control using **Git** and **GitHub**, with knowledge of cloud services like **AWS**. Experienced in writing clean, maintainable code with an emphasis on reliability through **unit testing**. Passionate about learning and implementing modern backend technologies.

Skills

Node.js, Express.js, Next.js, React.js, HTML, CSS, Tailwind CSS, Git, Github, Linux, AWS(beginner), C,C++, Java, Python, API building and Testing(Postman)

Experience

Trainee intern Engineer

Codecraft Technologies • Mangalore, Karnataka
02/2024 - Present

Key Learnings:

- Gained a strong understanding of full-stack development using **Node.js**, **Express**, and **React.js**.
- Learned to build dynamic and efficient web applications with **Next.js**.
- Acquired hands-on experience with **Git** and **GitHub** for version control and effective collaboration.
- Explored modern development tooling, including **Vite** for fast and optimized builds.
- Developed skills in **unit testing** to ensure code reliability and maintainability.

Intern

NITK Surathkal • Surathkal, Karnataka
04/2023 - 10/2023

Key Learnings:

- Developed a complete web application simulating the behavior of electronic filters (e.g., **pass band**, **Butterworth**, etc.).
 - Utilized **HTML**, **CSS**, and **JavaScript** to create an interactive user interface and simulate filter operations.
 - Gained practical experience in front-end development and web-based simulations.
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Education

Electronics And Communication Engineering

Alva's Institute Of Engineering And Technology • Mangalore, Karnataka
05/2024

Pre-University(PCMCs)

Vikasa PU College • Shimoga,Karnataka
04/2024

SSLC

Sri Mahaveer Vidyalaya • Shimoga,Karnataka
04/2018

PROJECTS

Next.js Library Management System

Tech Stack: Next.js, PostgreSQL, shadcn, TailwindCSS, AWS, Vercel Cloud

- Built a full-stack library management system with user authentication and role-based access (admin and regular users).
- Implemented search and recommendation features for books using a debounced search bar with live suggestions.
- Integrated PostgreSQL for managing book data, user requests, transactions, and profiles.
- Developed an admin dashboard to approve/reject book requests, manage book inventory, and track transactions.
- Deployed the app on Vercel for seamless CI/CD and hosted the database on AWS RDS.
- Utilized Cloudinary for storing book cover images, integrated via client-side uploads.
- Designed a responsive, futuristic UI using TailwindCSS and shadcn components, ensuring a modern user experience.

Electronic Filter Simulator

Tech Stack: HTML, CSS, JavaScript

- Built a web-based application that simulates the behavior of electronic filters such as pass band, low pass, and Butterworth filters.
- Developed the UI using HTML and CSS to allow users to input filter parameters and visualize the filter's frequency response.
- Implemented filter logic using JavaScript to perform real-time calculations and dynamically display results.
- Designed an interactive user interface to make it easy for users to explore and understand the workings of different filter types.
- Utilized JavaScript for rendering graphical plots of filter performance based on user input, providing an educational tool for electronics students.

Auto Login Bot

Tech Stack: Python, Bash, Selenium

- Developed a Python-based automation script that automatically connects to the college Wi-Fi and logs in using stored credentials.
- Automated the login process using Selenium to interact with the Wi-Fi portal, entering the username and password, and ensuring seamless connectivity.
- Created a Bash script to run the bot on system startup, automating daily logins without manual intervention.
- Implemented error handling for failed login attempts and periodic re-checks for connectivity issues.

Certificates

Legacy JavaScript Algorithms and DS - freeCodeCamp, Responsive Web Design - freeCodeCamp, Google Cloud Badges - GCP

Languages

English, Hindi, Kannada
