

# BALA KRISHNA MAKINENI

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[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

## EDUCATION

**B.Tech in Computer Science and Engineering**, RVR & JC College of Engineering

2020 – 2024

CGPA: 8.2 / 10.0

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, Bash

**Frameworks:** Spring Boot, Selenium, TestNG, Flask, Express.js

**Databases:** PostgreSQL, Redis

**Cloud/Tools:** AWS (S3, EC2, SQS), Git, GitHub Actions, Linux

**Core CS:** Data Structures, Algorithms, OOPs, OS, DBMS, Networks

## EXPERIENCE

**Software Development Engineer in Test - I**

Jul 2024 – Present

*Bidgely, Bengaluru, India*

- Engineered asynchronous data preparation modules using Java multithreading for mock and prod API datasets.
- Automated P0/P1 test cases within the core framework, enhancing critical regression coverage and reducing QA validation time, by detecting critical functional bugs.
- Contributed to SQS-based asynchronous test orchestration, optimising distributed execution and raising test pass rate to 90%.
- Integrated CI/CD automation via GitHub Actions to auto-trigger validation suites for each deployment cycle.
- Contributed to backend automation frameworks using Java, Spring Boot, AWS SQS, and TestNG, enabling scalable and reducing the test suite execution time to 35%.

**Backend Developer Intern**

Feb 2024 – Jun 2024

*NAATS Aviation Pvt Ltd, Guntur, India*

- Built REST APIs in Node.js and Express.js to handle telemetry data at 50ms intervals, deployed on AWS EC2.
- Collaborated with cross-functional teams, including Aeronautical Domain experts, to refine project requirements.
- Implemented Redis Pub/Sub for faster real-time data communication and reduced inter-service latency.

## PROJECTS

**Blog Platform** ([Live](#) — [Code](#))

Node.js, Express.js, MongoDB, Passport.js

- Developed a multi-user blog platform with authentication via Google OAuth and Passport.js.
- Designed secure REST APIs for CRUD operations and content moderation with JWT-based sessions.
- Integrated EJS templating and responsive UI using HTML, CSS, and Vanilla JS; deployed on Render.
- Integrated Quill.js rich text editor to enhance article creation and formatting with live preview support

**Weather Dashboard** ([Live](#) — [Code](#))

React.js, OpenWeather API

- Built a real-time weather dashboard using React.js and REST APIs from OpenWeather and GeoDB.
- Designed modular components (Search, Dashboard, Location) with state management hooks.
- Enhanced UX with dynamic backgrounds, loading animations, and temperature-based styling.
- Deployed on Vercel with CI integration and API caching for faster response times.

## ACHIEVEMENTS & CERTIFICATIONS

- Awarded **Spot Award** at Bidgely for Automating the P0/P1 cases at framework level to detect functional bugs.
- Solved 300+ coding problems on LeetCode, GeeksforGeeks, and CodeChef.
- Winner, **InformaTrix Coding Contest** at RVR & JC College of Engineering.
- Certified in **Web Development (Udemy)**, **Programming in Java (NPTEL)**, **Python (MTA Microsoft)**, **AWS Cloud Foundations**.