Bala Ganesh K

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Education

VIT-AP University   2021 – Present
Bachelor of Technology (B.Tech.) in Computer Science and Engineering — CGPA: 7.93/10   *Amaravati, Andhra Pradesh*
- **Relevant Coursework:** Data Structures and Algorithms (Java), Probability and Statistics, Computer Networks, Artificial Intelligence, Database Management Systems, R Programming, and Operating Systems.

Experience

Spectrum7 Technologies   Nov 2023 – Jan 2024
Web Development Intern   *On-Site*
- Created web pages using **React.js** and **Next.js**, ensuring responsive and seamless user experiences.
- Implemented RESTful APIs and managed databases with **MongoDB**, streamlining backend integration.
- Created interactive dashboards with **Power BI**, transforming data into actionable insights and collaborating with teams to meet project deadlines.

Projects

RecruitMe – A Student Placement Preparation Portal | *MERN Stack, JavaScript, Node.js, Express.js, MongoDB*
- Developed an interactive **MERN stack** dashboard for aptitude tests, progress tracking, and personalized study plans, enhancing overall student engagement and job readiness.
- Integrated an advanced **AI interview simulation** feature, providing realistic mock interviews with detailed feedback to improve student performance in real job scenarios.
- Built a robust backend with **Node.js** and **Express.js**, implementing secure **JWT** authentication and leveraging **MongoDB** for data storage and user management.
- Received positive feedback for the intuitive interface, realistic interview simulations, and overall impact, significantly improving user preparation and confidence.

VIT-AP University in Metaverse | *Blender, Unity 3D, C#*
- Led the development of a virtual replica of VIT-AP University using **Blender** for modeling and **Unity 3D** for creating an immersive, interactive metaverse campus.
- Implemented dynamic interactive features using **C#** scripting in Unity, allowing users to navigate, explore, and interact with different campus areas seamlessly.
- Collaborated closely with a team to optimize performance, ensuring cross-platform compatibility and a smooth user experience across various devices and environments.
- The virtual campus received excellent feedback from students and faculty for its detailed realism, innovative interactive features, and its role in fostering virtual engagement and collaboration.

Tools and Skills

Tools and IDEs Used: Visual Studio, MySQL, Blender, Unity 3D, Power BI
Technologies: Python, SQL, HTML, CSS, JavaScript (React.js, Next.js)
Familiar With: Full Stack, Cloud Computing, Visualization, 3D modeling, Rendering, Rigging, Animation
Programming Languages: Java, Python
Languages: Fluent in English, Tamil

Certifications

- AWS Certified Cloud Practitioner
- NPTEL Programming in Java
- Coursera - 3D for Virtual Reality
- Rajya Puraskar - Scouts

Position of Responsibility

Content Creator: CSI Chapter, VIT-AP
Content Creator: Semmozhi Tamizh Mandram, VIT-AP