Rathan K

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Linkedin | Github | Portfolio

Professional Summary

Detail-oriented Computer Science undergraduate with **full-stack development** experience (**React**, **Spring Boot**, **Node.js**, **SQL**). Proficient in **Java**, **Python**, and **C/C++** with exposure to **AWS**. Strong background in 3D modeling and animation (Blender) and hardware assembly. Passionate about integrating software and hardware to create scalable, user-focused solutions.

Education

Karpagam College of Engineering - B.E. Computer Science   Sept 2023 – May 2027
- **GPA**: 8.2/10
- **Coursework:** Operating Systems, Data Structures and Algorithms, Computer Networks, Theory of Computation, Artificial Intelligence, Machine Learning, Computer Architecture, UI/UX Design

Experience

Rathinam Campus, CA Game Development and Design Camp (2023)
- Developed more than 2 prototypes in **Unreal Engine** and produced **5+** game assets in Blender, improving visual quality and player engagement.

Quantum Computing Fundamentals (2024)
- Engineered and tested **3+** quantum algorithms on simulators and IBM Quantum Experience, demonstrating improvements in computational efficiency for small datasets.

Projects

Custom PC Assembly:
- Designed and optimized a custom PC by selecting compatible components, reducing boot time by **20%**, and enhancing stability through **BIOS** tuning, **cable management**, and **thermal optimization**.

Gesture Fruit Ninja:
- Developed a gesture-controlled game using **MediaPipe**, improving input latency by **30%** and gesture accuracy by **25%** for intuitive **AR/VR** interaction.

Mobile Application Framework:
- Built a Flutter/Dart mobile app framework with multi-screen navigation, improving workflow efficiency by **30%** and ensuring responsive cross-platform compatibility.

Apple Website Clone:
- Replicated the Apple website front-end. (HTML, CSS) with pixel-perfect accuracy. The project gained **150%** higher engagement on design forums.

Certifications

Coursera: Built a Website with WordPress
Celonis: Academic Process Mining Fundamentals
MongoDB: MongoDB Basics for Students
GeeksforGeeks: Full Stack Developer Bootcamp

Skills

Languages: Java, C/C++, Python, JavaScript, Dart, SQL
Frameworks and Libraries: React.js, Node.js, Spring Boot, Django, Scikit-learn, Keras, MediaPipe, Flutter.
Tools and Platforms: Git & GitHub , Visual Studio Code, Eclipse, Blender, AWS, Linux (Ubuntu/Kali).
Specialization: AR/VR Development, Gesture Recognition, Quantum Computing Fundamentals.
Soft Skills: Leadership, Effective Communication, Collaboration, Adaptability.