

AJAY KUMAR JELLA

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EDUCATION

Masters in Computer Science, University Of Memphis (GPA:3.5)

Jan 2023 - Dec 2024

Bachelor of Science in Computer Science - Jawaharlal Nehru Technological University

Aug 2016 - Nov 2020

TECHNICAL SKILLS

Programming Languages	C, C++, Java, Python, JavaScript, TypeScript
Database	MySQL, PostgreSQL, MongoDB
Cloud & Web Technologies	AWS, Azure, Angular, React, Nextjs, Vue, Phaser3, Ruby on Rails, HTML, CSS
Other	Apache Kafka, AWS, Git, Agile, WebGL
Certifications	AWS Cloud Quest: Cloud Practitioner(Badge), Social Networking(NPTEL), Machine Learning(NPTEL)

EXPERIENCE

Software Engineer

Aug 2020 - Dec 2022

CZAR Gaming Private Limited

Hyderabad, India

- Optimized the performance of a fully interactive poker game (desktop/mobile/tablet) by increasing game responsiveness by 30% using the Phaser3 game engine, which is purely JavaScript-based.
- Built and deployed poker games (desktop, mobile) using ReactJS, leveraging HTML5, CSS3, and JavaScript to deliver smooth transitions and superior user interfaces. Followed full software development lifecycle practices, including code reviews and source control management.
- Developed a Online Casino website using Angular for managing complex, reusable modules and two-way data binding to streamline data synchronization between the game interface and the backend, enabling seamless updates to player statistics and real-time game interactions.
- Streamlined live application deployments with ElectronJS, reducing deployment time by 35%, and integrated asynchronous APIs with JSON and AJAX for efficient communication between client and server.
- Optimized database performance by 25% for a sports website using PostgreSQL, implementing robust data analysis and management techniques for scalable and efficient operations.
- Implemented backend services using Node.js to handle asynchronous operations efficiently, integrating RESTful APIs and WebSocket for real-time game updates. Ensured seamless communication between the client-side applications and servers, enhancing the scalability and performance of gaming platforms.
- Designed and developed intuitive and user-friendly UI/UX interfaces, adhering to modern web standards and ensuring proper error handling within strict deadlines.
- Recognized as the 'Best Performer of the Year' in 2021 for outstanding contributions to project quality and efficiency.

Software Intern

Nov 2019 - July 2020

Manac Infotech Private Limited

Hyderabad, India

- Enhanced security framework by 40% through the development and maintenance of the ProGuard system using Java/J2EE and MySQL, significantly reducing vulnerabilities and increasing system resilience.
- Improved system performance efficiency by 25% by optimizing the development process using Eclipse Galileo, JDK 1.6, and Tomcat 6.0, ensuring reliable and streamlined operations. Decreased incidents of malicious online account activities by 35% by implementing advanced security measures and protocols, boosting overall system protection.

ACADEMIC PROJECTS

Enhancing Web Application Security through Secure Error Handling

- Developed a web application highlighting vulnerabilities due to insecure error handling and implemented secure coding practices to mitigate these risks.
- Conducted comparative security analysis, demonstrating the effectiveness of secure error handling and improving the overall security posture of web applications.

Agricultural Yield Forecasting

- Utilized Random Forest algorithm to predict crop yields, enhancing crop selection and boosting farm efficiency.

Antique benz E-Toy store

- Developed an e-commerce website for Antique Benz Replica Toys using Ruby on Rails, integrating user-centric features such as design proposal submissions and monthly competition giveaways. Achieved 100% test coverage through comprehensive test scripts, ensuring robust application performance and reliability.