TEJAL BAGADE

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CAREER HIGHLIGHTS

- Passionate and experienced software engineer with a proven track record of delivering innovative technical solutions. Seeking to leverage my expertise in software development, data processing, and project management to excel in the Women Creators Program 2023 and contribute to cross-platform gaming experiences within Fortnite.
- Built reliable distributed systems, backend rest API services to enable seamless data flow of ~4.5 Million records between enterprise systems.

GAME DEVELOPMENT

Barrel Blast: Catastrophe Edition   **2023 - In Progress**
<u>Game Developer</u>
- Leveraged Unreal Engine's Blueprint scripting to craft dynamic gameplay mechanics, allowing for the strategic spawning of cannonballs to solve intricate puzzles and interact with barrels, resulting in a 30% increase in player engagement.
- Seamlessly integrated 3D models, textures, and animations through adept asset importing techniques, elevating the visual and interactive aspects of the game, and achieving a 20% reduction in loading times, ensuring a smoother player experience.
- Implemented intricate physics-driven interactions, skillfully simulating the realistic physics of cannonballs, barrels, and environmental elements through the use of impulse forces, leading to a 20% increase in player interactions and a 50% rise in player satisfaction.

PROFESSIONAL EXPERIENCE

J. P. Morgan Chase & Co   **2020 - 2023**
<u>Senior Software Engineer</u>
- Spearheaded a $3.54 Million regulatory system from design to production deployment with a team of 5 engineers and business stakeholders within 9 months for data processing outliers among Trade data records as per established European Regulators.
- Automated microservices for server-oriented architectures for cross-functional business teams to supply analytical data to the Business Control Management, which saves 30% of time for 287 people across three market divisions, which shields the business from projected annual regulatory fine of $3.21M.
- Built reliable distributed systems, backend rest API services to enable seamless data flow of ~4.5 Million records between enterprise systems.

<u>Software Engineer</u>
- Achieved a 20% reduction in software defects by introducing rigorous unit testing methodologies and conducting code reviews, leading to enhanced overall product quality and customer satisfaction.
- Implemented an efficient ETL framework, reducing data extraction time by 50%, leading to faster data availability for reporting and analysis purposes, significantly improving operational efficiency.
- Reduced compute time by 43% with in-house distributed compute infrastructure solutions for handling daily data manipulation of ~5 million records related to Exotic Derivative instruments for Market Risk.

Motorola Solutions Inc.   **2018 - 2019**
<u>Software Engineer Intern</u>
- Successfully integrated advanced machine learning algorithms for Smart Network Device Analytics Platform for Mission Critical Communication leading to 2.35% resource usage optimization on the monitoring dashboard.
- Designed and executed end-to-end pipeline tests, ensuring a 98% data processing accuracy rate, bolstering confidence in data-driven decision-making across the organization.

EDUCATION

University of Texas at Dallas, USA : *Master's Degree,* **Computer Science**   **2017- 2019**
University of Pune, India: *Bachelor's Degree,* **Computer Engineering**   **2013- 2017**