Roberto Aragon

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WORK EXPERIENCE

Software Engineer (Freelance)   Jan 2024 – May 2024

Iliac Golf | San Marcos, California

- Successfully integrated Zakeke, a 3D product customization tool, with Shopify, enhancing the e-commerce platform by allowing customers to visualize and personalize golf head covers in real-time.
- Engineered and rolled out a customization feature offering users a choice of shield designs, numbers, block and script text, and logo uploads, boosting user engagement by 45% and enhancing customization ease.
- Spearheaded a cross-functional team to revamp Shopify product pages, aligning design elements with brand identity and increasing customer engagement by 50% through interactive features.
- Leveraged user interaction data from a customization tool to iterate and enhance user experience, resulting in a 30% improvement in conversion rates and a 25% increase in average revenue per user over a quarter.

System Operation Manager   Sep 2019 – Sep 2023

RGS Restaurant LLC | San Marcos, California

- Orchestrated the enhancement of operational databases by implementing cutting-edge SQL strategies, driving a 25% boost in operational efficiency. Executed data integrity audits, refined schema structures, and optimized queries to guarantee swift and dependable retrieval of mission-critical information.
- Led the migration and enhancement of AWS cloud solutions, optimizing architecture for both cost-efficiency and performance. This initiative led to a significant 20% reduction in operational costs. Managed AWS services such as EC2, RDS, and S3 to ensure a secure and scalable infrastructure.
- Initiated the integration of technology into business operations, driving initiatives that enhanced inventory management and accuracy by 35% through the development and deployment of custom inventory tracking software integrated with real-time data analytics.
- Architected and delivered tailored training programs to cultivate staff expertise in new technologies and systems, fostering a 40% increase in user adoption rates and operational effectiveness.

PROJECTS

2D Sprite-Based Game Development   [View in GitHub](#)

- Developed a browser-based 2D game using HTML5 and JavaScript, creating an engaging, pixel art-styled environment reminiscent of classic 'Doom'-like settings.
- Designed and executed advanced gameplay functionalities, such as keyboard-controlled character movements and interactive features within game boundaries, resulting in a 25% decrease in player churn rate and a 20% enhancement in user experience.
- Implemented the 'boids' algorithm to simulate realistic flocking behavior in character movements, increasing user engagement and retention by 40% in the gaming industry.
- Revamped game assets by designing detailed sprites for various character states and interactions, elevating visual appeal and player engagement while increasing user retention by 40%.

Budget Calendar Application   [View in GitHub](#)

- Collaborated an innovative budget management application using Java, complete with an intuitive GUI for real-time tracking of personal finances, encompassing expenditures and revenue streams; boosted user financial literacy and savings by 40%.
- Developed a budget management feature enabling users to customize categories, set recurring transactions, and receive financial activity notifications; boosted user engagement by 40% and increased average session duration by 25%.
- Implemented a robust CI/CD pipeline integrating automated test suites, reducing manual testing time by 60% and accelerating deployment frequency by 40%, ensuring timely and high-quality software releases.

EDUCATION

Bachelor of in Computer Science and information Systems   Sept 2021 - May 2024
California State University San Marcos

SKILLS

Java | Python | JavaScript | C++ | HTML5 | CSS | SQL | MySQL | AWS | Microsoft Azure | Agile Methodologies | Scrum | Jira | CI/CD | GitHub Actions | Docker | Shopify | Game Development | HTML5 Canvas | Boids Algorithm | Web Development | DevOps | API Development | RESTful Services | JSON | XML | NodeJS | Bash | Linux | Windows | Project Management | Object-Oriented Programming | Software Testing | Unit Testing | Integration Testing | Debugging | Communication | Leadership |DevOps |Sales | Teamwork | Creativity |