Kay Kayale

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EDUCATION

Bachelors of Science in Computer Science   **Expected May 2024**
California State University, Long Beach
Cumulative GPA: 3.7/4.0; President's Honor List

EXPERIENCE

NASA Jet Propulsion Laboratory | Software Engineer Intern (APX)   **Oct 2022 - Present**
- Implemented features on the mars.nasa.gov website through full-stack development, utilizing regression testing and responsive design principles to significantly improve user experience for a global audience
- Developed programs within ITSDB, a comprehensive data management system utilizing ColdFusion and SQL, to oversee and secure critical information pertaining to company assets, applications, and personnel
- Managed and deployed databases within ITSDB, optimizing connections to enhance data accessibility and organization, ultimately facilitating seamless operations, ensuring efficient access to vital information
- Conducted rigorous testing and quality assurance of various software applications, ensuring optimal functionality and reliability
- Leveraged comprehensive data analysis to drive content optimization and enhance audience engagement, implementing strategic changes for improved company performance across newsletters and website

Code Ninjas | Coding Instructor   **Nov 2021 - Oct 2022**
- Educated students on programming concepts and algorithms using JavaScript, Python, and Java
- Curated lessons in building robots, circuits, and 3D models, fostering hands-on learning and creativity

PROJECTS

SpaceSurfer Application | Project Manager, Full Stack Developer   **Aug 2023 - Present**
- Led a team of 6 in the development of a space reservation application, employing Scrum and Agile methodologies to establish sprint cycles, optimizing project management and ensuring on-time deliverables
- Implemented .NET, C#, and SQL for the application's development, ensuring a high level of functionality, and robust security measures to safeguard sensitive data, ensuring compliance with privacy regulations

RateMyCampus Website | Full Stack Developer   **Feb 2023 - May 2023**
- Developed a web application with a team that enables users to submit campus-wide ratings and polls
- Collaborated on the end-to-end development process, utilizing a tech stack encompassing React.js and MongoDB, achieving a seamless and interactive user experience. Figma was also employed to create intuitive wireframes, ensuring a user-centric design approach from the outset

NASA L'Space Mission Concept Academy | Science Lead   **Jan 2022 - May 2022**
- Conducted a comprehensive preliminary design review for a groundbreaking moon mission concept, analyzing mission elements and designing specialized equipment for experiments on the moon's crust
- Designed advanced equipment for conducting experiments on the moon, ensuring precise data collection

SKILLS

- **Programing Languages:** Python, Java, C#, C/C++, HTML, CSS, Javascript, SQL, ColdFusion, React, .NET
- **Software:** Git, Visual Studio, Jupyter, Pycharm, Visual Studio Code, Oracle SQL Developer, Microsoft Office, MongoDB, Figma, WordPress, ROS2
- **Other Skills:** Algorithms, Agile Methodology, Scrum, Design Patterns, Object Oriented Programming, Application Development, Responsive Design, Databases, Project Management, Amazon Web Services
- **Languages:** English, Arabic, Spanish