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**
- Actively developing and maintaining projects on NASA's Mars Exploration Program website through full-stack development, utilizing responsive design principles and regression testing to provide the latest information on NASA's past, present and future missions to Mars, reaching a global audience of over 3 million monthly users
- Developed programs within JPL's IT system, utilizing Akana API, ColdFusion, and SQL Developer, to manage and secure critical company data, including assets, mission applications, security incidents, and over 7,000 personnel
- Leveraged comprehensive data analysis to drive content optimization and boost audience engagement, effectively implementing strategic marketing tactics that attracted over 100,000 new users across newsletters and websites
- Conducted thorough testing of various applications, while migrating over 100+ web pages across several servers

Code Ninjas | Coding Instructor   **Nov 2021 - Oct 2022**
- Instructed 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**
- Lead a 6-member team in developing a space reservation application, implementing Scrum and Agile methodologies to streamline project management, ensure on-time deliverables, and boost team efficiency by 50%
- Implemented a space reservation feature that enables private companies to upload office floor plans and list rentable inventory, while allowing employees to seamlessly reserve office spaces and rent out utilities as needed
- Enforced security measures to safeguard sensitive data, while ensuring compliance with privacy regulations

CSULB Lunabotics | Autonomy Engineer   **Aug 2023 - Present**
- Developed a program to automate a lunar robot through several challenges and obstacle courses using ROS2
- Implemented precise position tracking using DWM1000s and executed motor commands for optimal robot navigation

RateMyCampus Application | Full Stack Developer   **Feb 2023 - May 2023**
- Designed and developed a responsive application catering to CSULB students, where users can curate and submit ratings, polls, and votes, enhancing the overall campus experience
- Collaborated with a team of 6 students, utilizing React.js, MongoDB, and Figma on the end to end development

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
- Took initiative to lead the science subteam while planning and organizing tasks, deadlines, and meetings

SKILLS

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

ACTIVITIES

- **Society of Women Engineers**   **Sep 2021 - Present**
- **CSULB Association for Computing Machinery**   **Sep 2021 - Present**
- **CSULB Programming Team**   **Aug 2022 - May 2023**