PAT NOM

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To advance my career with a leading organization that will utilize my extensive software engineering knowledge while also allowing me to develop further as a professional.

SUMMARY

Accomplished, results-driven Full Stack Developer highly regarded for developing applications which meet and exceed demanding corporate and client requirements. Sought for superb analytical skills, with the ability to solve challenging problems using a combination of industry standard and cutting-edge technologies, delivering clean, well-structured code. Skillset to work compatibly with clients to understand requirements and develop products that exceed quality expectations with on-time delivery. Strong team leadership skills and Agile methodology knowledge with experience working in a team environment, able to collaborate with individuals from diverse backgrounds.

CORE COMPETENCIES

- Software Development Life Cycle (SDLC)
- Front-End Development
- Back-End Development
- Git Methodologies
- System Security
- UI/UX implementation
- Communication
- Teamwork

WORK EXPERIENCE

Software Engineer I Sept 2020 – June 2023
Land Processing Distributed Active Archive Center (LP DAAC) USGS, Sioux Falls

- Updated 12 enterprise-level applications by meticulously updating more than 100 outdated libraries within several programming languages; employed robust engineering methodologies and state-of-the-art tools to ensure future-proofing and seamless functionality.
- Streamlined project management by implementing Sprint methodology to organize and prioritize ongoing tasks; with the transition to SAFe methodology, setting the stage for enhanced project efficiency and long-term success.
- Partnered with NASA scientists to gather project requirements and create more than 150 Jira tickets for the development of new features and ongoing ASTER tool maintenance to facilitate a targeted and structured approach to project management.
- Enhanced the security posture of LPDAAC tools by leveraging the Acunetix tool. Implemented robust security measures and conducted regular vulnerability assessments, ensuring the uncompromised security of all LPDAAC applications.
- Demonstrated expertise in debugging by identifying and rectifying software issues to ensure the delivery of error-free software and feature updates.

Software Engineer Internship June 2020 – Sept 2020
EROS CalVal Center of Excellence USGS, Sioux Falls

- Executed comprehensive research to develop a georeferencing automation system utilizing Landsat 8 data.
- Engineered and implemented a Python scripting algorithm with the ArcGIS API to automate the production of precise georeferenced images, streamlining the mapping and geospatial data processes.
- Stayed up-to-date with industry trends, technologies, and best practices, enhancing technical knowledge and contributing to innovative solutions.

PROJECTS

LP DAAC External Website Sept 2020 – June 2023
https://lpdaac.usgs.gov

- Proactively contributed to the development of new features and played a pivotal role in the continuous maintenance of a high-traffic website, serving over 200,000 monthly visitors.
- Collaborated in a 4 person team to improve the user experience for LPDAAC scientists to create news articles, ASTER Products, and E-Learning pages.
- Initiated a comprehensive overhaul that significantly reduced loading times and ensured consistent and efficient data access by identifying persistent issues in the publications table.
- Piloted the creation of the podcast page by leveraging Django to seamlessly interface with Wagtail CMS. This innovative addition provided visitors an additional resource for accessing information on ECOSTRESS, EMIT, and other NASA missions.

ASTER Emergency Scheduling Interface and Control System (AESICS) Sept. 2020 – June 2023
https://aesics.cr.usgs.gov

- Facilitated communication by collaboratively engaging with AESICS users, ensuring an open and transparent dialogue to address their needs clearly and effectively.
- Enhanced the functionality of the AESICS table by introducing innovative features, such as filterable columns, customizable rows per page, and optimizing table loading for increased efficiency.
- Pioneered the development of a user-friendly feature, leveraging cron jobs to enable automatic date setting for entry expiration. This innovative approach enhances the user experience with a valuable quality-of-life addition, streamlining the management of entry timelines.

EDUCATION

South Dakota State University, Brookings, SD August 2017 – May 2021
B.E., Computer Science with Minors in Mathematics and Software Engineering
Magna Cum Laude
Dean's list, five semesters

TECHNICAL PROFICIENCIES

Languages:	Python, C++, C#, HTML5, CSS, Javascript, PHP
Frameworks:	Django, Flask, ASP.NET
Tools:	Docker, Kubernetes, Jira
Databases:	PostgresSQL
Version Control:	Git
Linux Distributions:	CentOS 7, RHEL 8

ADDITIONAL INFORMATION

Interests: Rock Climbing (competitive), Coffee, Keyboard-Building, Cooking, Hiking