PAT NOM

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SUMMARY

Accomplished Full Stack Developer with 3 years of high-impact experience, highly regarded for developing web applications tailored for NASA's land data scientists. Proficiency in Python and JavaScript is demonstrated, with a proven track record of robust solution development to meet complex data processing needs. Capable in working independently and collaboratively within a team is showcased, prioritizing effective communication with team members and clients for ensuring successful project outcomes. This experience was gained through previous roles at NASA and USGS, reflecting a strong technical aptitude and commitment to excellence.

CORE COMPETENCIES

- Software Development Life Cycle (SDLC)
- Front-End Development
- Back-End Development
- Git Methodologies
- Agile Scrum
- UI/UX implementation
- Communication
- Requirements Gathering

TECHNICAL PROFICIENCIES

Languages:	Python, HTML5/CSS/JavaScript
Frameworks and Libraries:	Django, Flask, ASP.NET JQuery, Webix, Sass
Tools:	Docker, Kubernetes, Elasticsearch, JIRA, CI/CD
Databases:	PostgresSQL, SQLite
Version Control:	GitLab, Github
Linux Distributions:	CentOS 7, RHEL 8

WORK EXPERIENCE

AI Trainer - Coding   January 2024 – Present
Remotasks   Remote, United States

- Thoroughly scrutinized and evaluated training code integrity across a diverse portfolio of 5+ Large Language Model projects through a meticulous testing process.
- Develop sophisticated and varied training prompts spanning a diverse range of programming languages, including Python, C++, Java, and SQL. Expertly covered multifaceted topics such as querying, security, software development, and algorithms to enhance the learning experience.

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

- Revitalized 12 enterprise-level applications by overhauling over 100 outdated libraries across various programming languages, allowing the groundwork for automatic version upgrades to fortify their longevity and ensure seamless functionality.
- Collaborated closely with NASA land data scientists to gather project requirements, resulting in the creation of over 150 Jira tickets. Facilitating the development of new features and enhanced project management strategies.
- 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.
- Conducted routine vulnerability assessments using Acunteix web scanner, guaranteeing the security and safety of several highly frequented LPDAAC applications.

WORK EXPERIENCE (CONT.)

Software Engineer Internship June 2020 – September 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.

PROJECTS

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

- Contributed to the development of new features and played an important 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.
- Led a swift and thorough overhaul of a critical breaking issue publications table in production, successfully investigating and resolving the problem within a few days.
- Piloted the creation of the podcast page by leveraging Django to interface with Wagtail CMS. Providing visitors an additional resource for accessing information on ECOSTRESS, EMIT, and other NASA missions.

ASTER Emergency Scheduling Interface and Control System (AESICS) September 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 for over 10,000 table rows.
- 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, greatly 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