PAIKTRA NOM

(651)983-3133 ⋄ paiktranom@gmail.com ⋄ paiktranom.github.io

SUMMARY

Software engineer with 3 years of experience in providing front-end development, back-end development and application deployment. Proven success in requirements gathering to determine project scope, identify bugs, and put out a product that puts customers first. Experienced in working with Python, HTML, and JavaScript to fulfill project needs. Displays extensive knowledge of agile methodologies, git practices, and developing software solutions.

WORK EXPERIENCE

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

- Designed solutions by identifying client pain points and collaborating with scientists with more efficient goal achievement in the ASTER mission.
- Conducted updates on 100+ outdated libraries within several programming languages by applying cutting edge and best engineering methodologies, ensuring 12 different enterprise-level applications were updated and future-proofed.
- Applied Sprint methodology to help with organization of active tasks while transitioning to sAFE methodology for more efficient project management in the future.
- Identified and resolved issues in ASTER tools by surveying bug reports and feature suggestions to effectively design user-centered tools without disrupting productivity.
- Coordinated with NASA scientists in requirements gathering for the creation of 150+ Jira tickets for new features and further maintenance of ASTER tools.

EROS CalVal Center of Excellence, USGS June 2020 – September 2020
Software Engineer Intern.

- Research for georeferencing design using Landsat 8 data to attach a geographical coordinate system to an aerial image for georeferencing automation development.
- Designed an algorithm with Python scripting and the ArcGIS API for automated production of georeferenced images.
- Create weekly presentations to present progress of development with tasks to aim for in the upcoming week.

PROJECTS

LP DAAC External Website September 2020 – June 2023
Software Engineer ***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.
- Identified recurring breakdown issues in the publications table, leading to a comprehensive overhaul that optimized data-scraping. Achieved a substantial reduction in loading times, ensuring consistent and efficient data access.
- Initiated the creation of the podcasts page by manipulating Django to interface with Wagtail CMS. Allowing visitors another resource for obtaining information on different NASA missions such as ECOSTRESS and EMIT.

EDUCATION

South Dakota State University, Brookings, SD August 2017 – May 2021
B.E., Computer Science with Minors in Mathematics and Software Engineering

SKILLS

Languages:	C, C++, C#, Python, HTML5, CSS, Javascript, PHP, Perl
Frameworks:	Django, Flask, ASP.Net MVC, Wagtail CMS
Tools:	Docker, Kubernetes, Jira, Acunetix
Databases:	PostgresSQL
Cloud Technologies:	AWS
Version Control:	Git

AWARDS

- **Graduated university with Magna Cum Laude distinction:** 2021
- **Deans list for 5 semesters.**