Samuel Lalley

in Samuel Lalley | ✉ samuellalley@gmail.com | 📱 541-619-8908 | ⊙ LalleyDev

SUMMARY

I am a Software Engineer with 4 years of experience. I am passionate about writing clean, efficient, reusable, and robust code while improving user experiences. I have a strong drive to do things correctly and continue learning. In addition, my work experiences have reinforced the importance of contributing to a supportive team environment while also independently managing tasks.

SKILLS

Java	Linux	Server Management	MCNP
Python	Git	Typescript	Machine Learning
C#	Secure Shell (SSH)	Javascript	Radiation Physics
Bash	Docker	Powershell	Radiation Detection

WORK EXPERIENCE

Software Engineer 2 - Renaissance Code Development   January 2023 - Present

– Developed a JavaFx application scaffold emphasizing reusable components and easing future migration towards web development.
– Implemented JUnit in a robust and reusable way to easily extend across multiple projects.
– Implemented GitLab CI pipelines with automated builds, unit tests, and failure reporting, establishing a repeatable CI process that improves release confidence.
– Migrated documentation and issue tracking into GitLab by formalizing workflows around Issues, and Wikis, which improved sponsor visibility.

Nuclear Engineering Research Assistant - Oregon State University   March 2022 - June 2024

– Wrote machine learning nuclide identification model to train on synthetically generated medical nuclide data from MCNP with the goal of identifying the nuclides on a real detector.
– Modeled a lab scale city design in MCNP and wrote Python code to automate generation of MCNP decks with different source locations and graphically display the resulting data.

EDUCATION

2021 - 2024	**Oregon State University** - Bachelor of Science Nuclear Engineering	(GPA: 3.56)
2018 - 2021	**Linn Benton Community College** - Associate of Science in Engineering	(GPA: 3.54)

PROJECTS AND ACCOMPLISHMENTS

UI/UX Evaluation of Digital Simulators - Senior Design Project of the Year

Conducted UI/UX research on NuScale's reactor simulator to improve usability for Gen Z users. Provided data-driven recommendations to enhance user interaction and efficiency.

Home Server Administration

Designed, built, and manage a Proxmox-based server hosting multiple services, including a local AI security system, a VPN Tunnel, a DNS server and a Reverse Proxy.

Eagle Scout   2017

Led a team to design and build a bike shelter for Jackson Street Youth Services in Corvallis, Oregon.