

Declarative Linux with Nix & NixOS

- **Speaker:** Alec Ramsey-Spencer
- **Room:** CC 236
- **Time:** Sun 9:30 am – 10:00 am
- **Format:** Lecture (30 Min + Q&A)
- **Difficulty:** Some experience required
- **Track:** Development & Dev Tools
- **Presenter Location:** In-person
- **Experience:** first time speaking

Description:

This talk introduces the power of **declarative system management** using the Nix package manager and Nix flakes. Alec will walk through how Nix enables reproducible, consistent system configurations — from development environments to full system builds — and how flakes provide a modern, structured way to manage those configurations.

The session also covers what **NixOS** is, how it differs from traditional Linux distributions, and why people are increasingly using it for both servers and desktops. Attendees will see real-world examples of how declarative configuration can simplify system management, reduce drift, and make experimentation safer.

Target Audience:

- Linux users and sysadmins with basic Linux experience

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