Open Source @ Oregon State University

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About me

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Director for Center of Applied Systems and Software (CASS)

http://cass.oregonstate.edu
The OSU Open Source Lab

Home to over 160 key Open Source projects ([http://osuosl.org](http://osuosl.org))

- Trusted partner for 10+ years
- Host 160+ projects, including Jenkins, Gentoo, Debian, QEMU, BuildBot, Busybox, Drupal, Apache Software Foundation, Python Software Foundation, Linux Foundation
- 500+ servers, 200+ virtual machines, 450TB downloads/month
- Provide hosting, tech support, development, QA
- Run by 4 full-time staff and 20 students
Open Source in Experiential Learning

• Real work, external clients, in school, professional mentorship
• 4:1 Student / Mentor ratio

• Services
  • Hosting/DevOps
  • Software Development
  • HW & SW Testing

• Importance of a portfolio
Open Source in the Classroom

• Open Source as infrastructure
• Open Source as case study
• Open Source as project
  • OpenHatch (http://www.openhatch.org)

• Open Source broadens appeal of CS
  • Meaningful projects
  • Humanitarian FOSS project (http://hfoss.org)
  • Google Summer of Code

• Need to teach Open Source development
Open Source in Research

Open Source as infrastructure

Empirical software engineering
• Study Open Source communities & processes
• Open Source communities and projects as proxies

Open Source as “neutral ground” with industry research

Release tools and data under Open Source/CC licenses
Open Source in Academia

• Land-grant/service mission

• In experiential learning

• In the classroom

• In research
Open Questions

• What are the barriers to academics teaching Open Source?

• What are the barriers to academics contributing to Open Source?

• What call to action would you have for academics?
Thank you