

Daniel Sean Pono Takamori

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My career interests are in providing open alternatives for infrastructure to FOSS projects, applying mathematical models to **webscale** problems and encouraging the replacement of closed scientific code with projects like Julia and SageMath.

Programming Languages: bash, Python, Ruby, C, Matlab, Mathematica, Racket, Julia

Software Experience: GNU/Linux, FreeBSD, (git, svn, darcs), (Apache httpd, nginx, HAProxy, varnish), (rsyslog, Elasticsearch, fluentd), Nagios, (Chef, CFEngine, Puppet), (qemu, libvirt, docker)

Clubs: OSU Math Club President 2014/2015, Society of Physics Students, Linux Users Group

Speaking: Donating to FOSS Infrastructure, Intro to Crypto, and Group Theory for Programmers

Miscellaneous: Engineering evaluations of sinks, **Apache member** and FOSS advocate/ contributor, 5 kyu Go and terrible Starcraft player

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Apache Software Foundation

Cloud Custodian, DevOps Engineer and Community Member

Oct 2015 - Current

- Migrate legacy VMWare into (Cloudstack, AWS, \$cloudprovider) + Ubuntu + Puppet 3/ 4
- Move Buildbot and Jenkins nodes into Puppet, use of Docker for build dependence separation
- Interface with Apache community to discover and delivery variety of infrastructure needs
- Services managed: svn, git, Atlassian Suite, ezmlm, and custom perl scripts galore

Oregon State University Open Source Lab

Systems Administrator

2012-2015

- Project lead for IBM University Challenge, image build system for OpenStack images on OpenPower8
- In charge of Power 7+/ 8 systems, managing OpenStack and testing
- Google Summer of Code Mentor for a Python REST API for interacting with IPMI
- Part of security task force ensuring automatic upgrades, error reporting, and risk assessment

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Oregon State University

Corvallis, OR

BS in Mathematics and Physics (Major Specific GPA 3.5)

Spring 2013 - Fall 2015

- Course Work: Real Analysis, Topology, Abstract Algebra, Quantum Mechanics, Computational Physics, Computational Number Theory, Error Correcting Codes, Systems of ODEs
- Implemented Diffie-Hellman over $\mathbb{Z}/p\mathbb{Z}$, wrote Fourier Transform for bitmaps as a compression mechanism, and modeled love triangles as a coupled ODE system

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