

Daniel Sean Pono Takamori

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My career interests are in providing open alternatives for infrastructure to FOSS projects, increasing diversity and inclusivity efforts for low income and minority groups, applying mathematical models to **webscale** problems, Making Automation Great Again and encouraging the replacement of closed scientific code with projects like Julia and SageMath.

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

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

Speaking: Donating to FOSS Infrastructure (SCaLE 2017), Intro to Crypto (DevOps Bootcamp), and Group Theory for Programmers (Barcamp)

Miscellaneous: Engineering evaluations of sinks, **Apache member**, 5 kyu Go and semi-professional Starcraft player

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Apache Software Foundation

Cloud Custodian, DevOps Engineer/ SRE and Community Member

2015 - Current

- Migration of legacy VMWare into (Cloudstack, AWS, \$cloudprovider) + Ubuntu + Puppet
- Transition Buildbot and Jenkins nodes into Puppet; Docker for build dependence separation
- Systems tooling for Github interactions and abstracted version control
- Increase Infrastructure testing: linting, VM verification and CI oh my!
- Interface with Apache community to discover and deliver variety of infrastructure needs
- Services managed: Jenkins, svn, git, Atlassian Suite, ezmlm, and custom perl scripts galore
- On call 24/7 once every 5 weeks, protector of SLAs and responder of night and weekend emergencies

Oregon State University Open Source Lab

Systems Administrator

2012-2015

- Project lead for IBM University Challenge, image build system for OpenStack images on OpenPower8
- Google Summer of Code Mentor for a Python REST API for interacting with IPMI
- Revamped documentation and new hire training materials
- In charge of Power 7+/ 8 systems, managing OpenStack and testing
- Part of security task force ensuring automatic upgrades, error reporting, and risk assessment
- Management of cloud and physical infrastructure for Python Software Foundation, Apache Software Foundation, Debian, Gentoo, Gnome, OpenMRS, OpenStreetMap, phpBB, ROS, Xiph

\$ cat /var/lib/education/college

Oregon State University

One term left

BS in Mathematics and Physics

- Course Work: Real Analysis, Topology, Differential Geometry, **Abstract Algebra**, Quantum Mechanics, Computational Physics, Computational Number Theory, **Error Correcting Codes**, Systems of ODEs, **Mathematical Biology**
- Strong background in technical writing due to proof writing training and math competition papers and presentations
- 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