Sam Winborn Gwydir

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Skills

C C++ Objective-C Ansible Bourne-Shell Ruby Python Java Lua

LaTeX Emacs-lisp Haskell Scheme Matlab

ToastMasters

Education

Texas A&M University College Station Texas USA   **May 2017**
  Bachelor of Science in Computer Engineering, Computer Science Track
  Minor in Mathematics

Experience

Groupon Palo Alto California USA   **June 2016 - Present**
FreeBSD ZFS MySQL Postgres Jenkins Poudriere R Ansible Shell

- Systems Engineering intern at Groupon working with FreeBSD-based database hosts.
- Devised method of mirroring upstream packages with pkgng team members.
- Benchmarking produced significant (8-10x) performance increase in MySQL setups.
- Automated OS image building for regression testing using Kyua, Jenkins and sysbench.
- Work with external consultant (iXsystems) to update host provisioning system
- Open sourced many of our custom FreeBSD ports

Selected Projects

Click-Bait Blocker
  Google Chrome Javascript convnetJS HTML CSS

- Google Chrome extension to block "Click Bait", or pointless articles
- Blocks posts on Facebook and tweets on Twitter
- ConvNetJS in-browser neural nets are used for classification
- A supervised neural net is trained with RSS feeds and Amazon Mechanical Turk

MythNAS
  FreeBSD/NAS/pfSense Mac OS X MythTV MySQL ffmpeg OpenSSH rsync

- Use TV tuners together in a custom DVR with 8 simultaneous 1080i recordings
- Launchd scripts are used to tunnel out from the client to nearest mirror
- Use ffmpeg and MythTV perl API to cut commercials out of TV shows
- rsync syncs remote laptop and DVR if network connectivity is available
- Make use of VPS in New York, New York and Frankfurt, Germany as mirrors
- Usage locations include Yuzhno-Sakhalinsk, Russia; Basra, Iraq; Dubai, UAE

Eugenics *github.com/gwydirsam/Eugenics*
  C++ CMake Google Test GNU GetOpts Python matplotlib Agile

- Eugenics is system to generate and visualize a genetic algorithm
- The algorithm attempts to generate circuits from a truth table
- Travis CI was used for continuous integration testing à la Agile
- Created custom CMake/Shell scripts to build application and link libraries

iTerm2 Badge Mod *github.com/gwydirsam/iTerm2-Mod*
  Objective-C

- Submitted Pull Request to iTerm2 Author (now issue #3508)

Github *github.com/gwydirsam*