

Sam Winborn Gwydir

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SKILLS	C C++ Objective-C Ansible Bourne-Shell Ruby Python Java Lua L ^A T _E X 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 <ul style="list-style-type: none">• Systems Engineering intern at Groupon working with FreeBSD-based database hosts• Devised method of mirroring upstream packages with pkgng team members• Documented and indexed all FreeBSD information across internal services• Benchmarked FreeBSD releases and driver and firmware for performance regressions under database workloads• Worked with a contractor at Gainframe to update host provisioning• Worked with support at iXsystems on performance regressions• Upstreamed several of Groupon's FreeBSD ports, and a small fix to crontab• Attended and talked at FreeBSD conferences
SPEAKING	The History and Future of Core Dumps in FreeBSD <i>https://github.com/gwydirsam/bsd-coredump-history</i> <ul style="list-style-type: none">• vBSDCon 2017, Verisign, Reston, Virginia, USA• AsiaBSDCon 2017, Tokyo University of Science, Tokyo, Japan
SELECTED PROJECTS	MythNAS FreeBSD/NAS/pfSense Mac OS X MythTV MySQL ffmpeg OpenSSH rsync <ul style="list-style-type: none">• 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 <i>github.com/gwydirsam/Eugenics</i> C++ CMake Google Test GNU GetOpts Python matplotlib Agile <ul style="list-style-type: none">• 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 <i>github.com/gwydirsam/iTerm2-Mod</i> Objective-C <ul style="list-style-type: none">• Submitted Pull Request to iTerm2 Author (now issue #3508) Github <i>github.com/gwydirsam</i>