Sam Winborn Gwydir

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SKILLS	C C++ Go Bourne-Shell Ansible Python Emacs-lisp LaTeX
	Public Speaking

EDUCATION

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

EXPERIENCE

Joyent, Inc. San Francisco California USA   **June 2017 - Present**
SmartOS   FreeBSD   Linux   ZFS   Postgres   C   Go   Dtrace   mdb

- Implemented "hot-inlining" CPU feature toggling to defeat class of attacks (OS-6239)
- Improved memory deallocation by 100,000x to improve Postgres performance (OS-6390)
- Patched Postgres to use Intimate Shared Memory for more effective virtual memory usage (MANATEE-371)
- Fixed long standing post-mortem DTrace bug in hypervisors (OS-5927)
- Participated in new OS bring up and testing (FreeBSD & Linux)

Groupon Palo Alto California USA   **June 2016 - June 2017**
FreeBSD   ZFS   MySQL   Postgres   Jenkins   Poudriere   R   Ansible   Shell

- Systems Engineering intern at Groupon working with FreeBSD-based database hosts
- 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
- Upstreamed several of Groupon's FreeBSD ports, and a small fix to crontab
- Attended and talked at FreeBSD conferences
- Debugged system and processes crashes

SPEAKING

Improving Netdump Performance with iflib BSDCan 2018 AsiaBSDCon 2018
- Improved Netdump performance by 1.7x in ideal conditions

Participating in Open Source Software Horizon School of Technology
- Q&A with students covering open source software and stories

The History and Future of Core Dumps in FreeBSD
vBSDCon 2017   BSDCan 2017   AsiaBSDCon 2017
- History of core dump feature in BSD and later FreeBSD, illumos and Mac OS X
- Detailed diagrams, feature list and descriptions of core dump procedure

Github *github.com/gwydirsam*