Sam Winborn Gwydir

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SKILLS

C/C++/Objective-C Java Bourne-Shell Ruby Python 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

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

- Moved the per-tab label or "badge" to the bottom right
- Submitted Pull Request to iTerm2 Author (now issue #3508)
- The option to move the badge is now part of the version 4 milestone

Spacemacs *github.com/syl20bnr/spacemacs*
Emacs-Lisp   Ruby

- Added spacemacs icon to "emacs-mac" homebrew formula
- Actively help users in IRC channel
- Several small bug fixes and issues submitted

Github *github.com/gwydirsam*