Justin Harrison

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Education

Computer Engineering Technology, Algonquin College	2015 - Present

Projects

GemTracker   `https://github.com/matthin/gemtracker`

- CronJob developed with C++11 and the SFML library. Retrieves daily download statistics for any program or library from Rubygems.org

- Web API backend developed with C++11 and SFML. Completely custom built router to handle routing web requests to the correct controller.

- Web frontend using HTML5, CSS3, and JavaScript. Displays daily download statistics using HTML5's canvas.

SimpleServer   `https://github.com/matthin/SimpleServer`

- HTTP web server developed with C++11. Wrapped POSIX sockets for cross-platfrom support.

- Easy end-user configuration using JSON. Works even with multiple domains using the same IP address. Takes inspiration from Nginx's easy block model configuration.

- Thread based like Apache, instead of Nginx-style asynchronous event loop model.

teamspeak-ruby   `https://github.com/matthin/teamspeak-ruby`

- Ruby wrapper for TeamSpeak 3's server query API.

- Over 3,000 downloads on RubyGems.org

- Unit tested alongside Travis-CI for automatic testing on Git commits.

Work Experience

Freelance Web Developer	2014 - Present

- Developed Ruby on Rails 4 web application for selling tickets to events (concert, comedy club, etc.). Was built through the month of September 2014 for LocalBuy.me

- Migrated Teambox to the community ran fork Crewmate, alongside Ruby upgrade from 1.8.7 to 1.9.3 to make use of security fixes and performance improvemnts.

- General Linux server maintance such as restoring database backups (MySQL, PostgreSqL), resolving DNS issues, and solving Apache configuration issues.

Skills

Ruby, C++, Java, JavaScript, Python, Git, Vim, Linux (Ubuntu, Debian)