JAY VYAS

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github.com/j3vyas · jay-vyas.com

Work Experience

Infrastructure Engineer
Wish (ContextLogic)
Sept. – Dec. 2016
San Francisco, CA

- Implemented an ops weekly tracking tool for logging and statistics
- Created visual tools displaying all machine status and auto scaling group information from AWS using Tornado and Flask
- Implemented QoL changes and bug fixes to internal tools (full stack)

Research Assistant (URA)
Waterloo University
Jan. - May 2016
Waterloo, ON

- Used ftrace to obtain 250GB/day of kernel function logs
- Created python scripts to parse generated logs
- Used netcat to send the logs to fluentD through TCP for further processing and redirection to end systems

Software Developer
Genesys Labs.
Sept. – Dec. 2015
Markham, ON

- Developed GENHIRE from design stage to deployment using Meteor
- Implemented bug fixes to customer issues and potential threats from KlocWork using C++ and tested with SIPp
- Analyzed Wireshark packets to debug DNS/RTP/H264 protocol issues

Compiler Optimization Developer
IBM
Jan. - April 2015
Markham, ON

- Implemented and shipped SSE/AVX functions in VECLIB using POWER intrinsics
- Created scripts/tools in Python to detect and translate source programs into VECLIB compatible programs
- Executed functional and performance testing in BE and LE systems

Software Developer
AppZero
May – Sept. 2014
Ottawa, ON

- Improved automated scripts for the PACE migration tool using Python
- Implemented bug fixes for front end (UI) and back end using C++
- Performed system, functional, and performance testing on AppZero using automated and manual testing methods

Education

Candidate for Bachelor of Applied Science in Computer Engineering
University of Waterloo

2012-2017

- Ranked top 5 in class (4.0 GPA)
- **Courses:** Distributed Computing, Cooperative & Adaptive Algorithms, Computer Security, Computer Networks, Database System, Operating Systems, Algorithms & Data Structures

Projects

Maplepedia
2016-current

- Flask based web service providing maplestory information to users
- Utilizes Maplestory's API to display character information, market statistics, and item information

Image Scraper
2015

- Multi-threaded image scraping tool written in Python capable of downloading all images within a provided URL
- Independently searches all sub URLs from root URL using the consumer/producer approach

Skill Set

Application:
- Python
- C / C++
- C#
- Java

Web Development:
- HTML/CSS (+bootstrap)
- JavaScript (+jquery)
- Node.js
- Meteor
- Tornado
- Flask
- AWS
- Digital Ocean

Scripting / Databases:
- Python
- Batch (DOS)
- Shell (UNIX)
- MySQL
- MongoDB

Environments:
- Windows
- UNIX / Linux
- AIX
- VMs (Virtual Box)

Version Control:
- Git
- SVN
- Mercurial

Interests/Passion:
- Learning new technologies
- Robotics/VEX
- Scripting/Automation
- Data Analysis
- Fitness
- Sports
- Gaming