

## Sol Ryan Jerome

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**Employability Status**      **US Citizen**

**Objective**      Software Engineering position where experience in a Linux environment will add value to operations.

**Education**      **The University of Texas at Austin**

Bachelor of Science, Computer Engineering, December 2008.

**Related Courses:**

Computer Architecture, Digital System Design using VHDL, Microprocessor Organization and Application, Compilers, Cryptography and Network Security, Telecommunications and Networking, Data Structures (C++)

**The University of Texas at Arlington**

### Experience

12/06 - PRESENT      **Systems Analyst, Institute for Computational Engineering and Sciences**

*Support all systems used by members of ICES.*

- Installed, configured, and maintained Bcfg2 deployment, used for server and workstation management
- Setup and configured integrated OpenLDAP and MIT Kerberos environment for Single Sign On for ICES services
- Setup master/slave DNS (BIND) servers
- Maintained backups, version control systems, MySQL databases, Web servers, collaboration servers (jabber, wiki)
- Implemented Linux desktop deployment system using PXE Boot and preseed
- Configured physical servers to host multiple virtual machines using KVM (Kernel Based Virtual Machine), VirtualBox, and Xen
- Maintain HPC clusters for various research groups in ICES

09/05 - 12/06      **Senior Student Associate, ITS Help Desk**

*Designed and installed remote administration system to improve efficiency in handling support calls.*

*Provided services directly to customers and supported all ITS Services*

- UTS (Unix Timesharing Services)
- University Mailbox Services
- UTEID

07/05 - 09/05      **Student Associate, ITS Information Desk**

*Assisted lab users with word processing, internet, and multimedia applications.*

08/04 - 07/05

**Package Handler, United Parcel Service**

*Responsible for safe and timely loading and unloading of delivery shipments for highest ranked UPS hub in the nation.*

**Academic  
Experience**

**UTFAST Research Group (Current)**

Integrate with Intel's simulation framework (AWB) which has recently been open-sourced and allows plug-and-play style configuration to improve collaboration with Intel research groups.

**ZigBee Aided Data Transfer**

Designed and implemented a ZigBee wireless link from a muon detector to a personal computer via a Stargate SPB400 Gateway and multiple MICAz wireless nodes.

**Skills**

Development Tools: C, C++, Assembly (for the Motorola 6812 microcontroller), Python, Pascal, shell scripting (bash, sed, awk), Java, version control (using both SVN and git)

Platforms: Linux, Mac OS X, Microsoft Windows

**Accomplishments**

Summer 2008: Became official [Bcfg2](#) developer

September 2004: Employee of the Month, UPS

**Configuration  
Management  
Expertise**

Heavily involved in [Bcfg2](#) development and support