

## **Arthur J. Haas**

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### **Work Experience**

- More than twenty five years of work using Unix (HP-UX, AIX, IRIX, Solaris) and Linux systems
- Extensive programming and scripting with Perl, Python, Tcl/Tk, C, C++, PHP, Bourne/Korn shells, and an introductory level of experience with Go, Haskell, and C#
- Installation and administration of various Ubuntu, Debian, Fedora, and Centos releases on a variety of hardware platforms
- Database administration and development using MySQL, PostgreSQL, and Sqlite backends
- Configuration and administration of the Geoserver geospatial data analysis program in conjunction with the PostGIS extension to PostgreSQL
- GUI software development using GTK+ and Tcl/Tk for desktop applications and several PHP frameworks for web-based and mobile apps
- Provided cross-platform developer support regarding portability between various Unix/Linux environments
- Developed and maintained multi-platform compiler configuration and build tools

### **Employment History**

#### **StormGeo (formerly Impact Weather)**

Houston, Texas

July, 2007 to Present

Position: Senior Software Developer/Administrator

- Maintenance of existing tools used for weather forecasting, adding enhancements and bug fixes, and developing new programs as necessary with Tcl/Tk, C, C++, and PHP
- Installation and administration of various Ubuntu releases on Sun, HP, IBM, and Dell hardware and a virtualized environment built on VMWare
- Configured and administered MySQL and PostgreSQL databases, plus worked to improve performance on both systems through schema/table improvements and query optimization
- Performed normal user-account management tasks as required for personnel changes
- Completed numerous ad-hoc projects such as bulk updates to client location data, system configuration and synchronization tasks, data transfer between one database to another, system monitoring, etc.

#### **Self-Employed Software Developer**

Houston, Texas

January, 2002 to June, 2007

Created PythonCAD, an open-source CAD system for Linux

- Developed the entire program using Python (early 2.X releases)
- Utilized the PyGTK library for GUI development for the GTK+ toolkit

**Western Geco (formerly Western Geophysical)**

Houston, Texas

April, 1999 to January, 2002

Position: Programmer

- Responsible for building various programs (C, C++, and Fortran) on AIX, Solaris, IRIX, and Linux
- Developed various tools for speeding up code compilation, dependency analysis, and compiled binary verification
- Developed and extended a web-browser based source code check-in/build system used for offices in Houston and Bedford, England
- Assisted in maintaining source code check-in/checkout on an SCCS based system
- Improved installation and configuration scripts for working with company software
- Supported local developers with improvements or development of various script/program tools

**Contract Programmer**

Houston, Texas

March, 1998 to February, 1999

Position: Unix Programmer/Administrator

- Created graphical user interfaces in Tcl/Tk for easy administration of various of batch-processing applications
- Automated file exchange and update between corporate locations using Perl scripts
- Led development work for CAD macro programming, debugging, and upgraded to Y2K compliant version
- Added additions to logging functionality and extra debugging features of internally developed drawing tracking system batch processing tasks
- Assisted with modifications of corporate drawing tracking system to work with an Oracle database

**Dril-Quip, Inc.**

Houston, Texas

June, 1993 to January, 1998

Position: Unix Administrator

- Assisted with maintenance of CAD software (macro programming, debugging) on HP-UX system
- Extensive Korn shell scripting for drawing control system
- Wrote miscellaneous scripts and programs for system maintenance, upgrades, configuration, etc.
- Performed user assistance and training for both the CAD software and HP-UX system

**Education**

The University of Texas at Austin

M.S. in Mechanical Engineering, December 1992

The University of Texas at Austin

B.S. in Mechanical Engineering, December 1990

**References**

Available upon request.