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## Travis B. Hartwell

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### PROFESSIONAL EXPERIENCE

**21<sup>st</sup> Century Technologies**, Austin, Texas

**May 2006-Present**

#### Engineer

- Designed and developed general script execution system for J2EE client-server platform, integrating Jython and Enhydra Shark as execution engines. Wrote custom Jython import mechanism from JSR 170 content repository.
- Helped set up Maven 2 builds and other automation for all team projects, including Bamboo automated build server and scripting to set up local Maven 2 mirror
- Helped extend compiler for custom Pattern Query Language to support new language constructs
- Writing extension of Postgis extras Tiger geocoder for international cities
- Integrated uDig into in-house Eclipse RCP application, including custom data export dialogs and project synchronization

**Roxor Games**, Austin, Texas

**May 2004-May 2006**

#### Systems Engineer

Simultaneous roles and responsibilities including:

- **Game Development Team Lead**
  - Lead development of major arcade video game title consisting of 200,000 lines of C++ code and 40,000 lines of script.
- **System and Network Administrator**
  - Directed and performed network and server administration.
  - Provided company-wide technical support for all major platforms.
- **Factory Workflow Automation**
  - Increased factory production capacity 40 times through the design and implementation of a hardware and software system.
  - Designed and implemented software tools used for monitoring, quality control, and shipping preparation of arcade units.

**Freelance Contractor**, Logan, Utah

**May 2002-May 2004**

Major projects included:

- **Iowa Environmental Mesonet** **Network Software Consultant**
  - Designed and implemented "Neighborhood Weather Net Hub" for over-the-network gathering, manipulation, and redistribution of weather data.
- **Wolf Bioscience** **System Administration**
  - Set up and managed five Linux servers for corporate Internet and intranet presence while documenting installation, configuration, and security procedures.
  - Wrote functional tests for web application.

**Trans-Lux, Logan, Utah****June 2000-August 2001****Software Intern**

- Developed custom database and Windows GUI control to edit and view database content.
- Prototyped port of Windows-based software to Linux including component models, network communication, and device drivers.

**Utah Climate Center, Logan, Utah****July 2000-May 2001****Software Developer**

- Developed applications for climatological data gathered from meteorological data loggers, including: collation, analysis, and formatting for the web.

**USU Soil Physics Lab, Logan, Utah****February 1999-September 2000****Software Engineer**

- Maintained, provided technical support, and documented an application for the acquisition and analysis of soil sample data and water content.
- Trained and mentored new development team members.

**OPEN SOURCE CONTRIBUTIONS**

- Contributed classpath module importer to Jython core
- Developed enhancements and bug fixes for Emacs Planner mode.
- Designed and began implementation of Informant, a custom end-user event notification system for the Gnome desktop.
- Provided bug fixes, enhancements, documentation, and support for the Twisted network framework.
- Updated and improved Beyond 2: The Open Source Virtual World Framework.
- Contributed documentation fixes for the Python programming language.

**TECHNICAL SKILLS SUMMARY**

- **Professional Experience**
  - Python, POSIX Shell, Java, C++, and C development.
  - Recent experience with Eclipse, Maven, Ant, J2EE, Geronimo, Velocity, DVSL, XML, basic JSP, PostgreSQL, and Postgis
  - Wide variety of Windows and Linux development tools and platforms.
  - Debian, Ubuntu, Redhat, Apache, Twisted, exim, mailman, NFS, Samba, PostgreSQL, CVS, Subversion and related server tools.
- **Other Related Experience**
  - Common Lisp, Haskell, Emacs Lisp, Matlab/Octave, and Scheme.
  - HTML, XHTML, and CSS.
  - Other various documentation systems including LaTeX.

**PUBLICATIONS AND PRESENTATIONS**

- Presented at PyCon DC 2004, "PyGtk and PyGnome Programming".
- Gave extended version of PyGtk presentation at the 3<sup>rd</sup> USU Free Software and Linux Forum.
- Presented at PyCon DC 2003, "A Twisted Web Tutorial".

- Taught in-depth workshops, “Beginning Emacs Editor Usage” and “Beginning Python Programming”.
- Published code in colleague Marc Anderson's Master's thesis, “Adapting Minimum Temperature Forecasts to Fruit Orchards in the Intermountain West”.

**EDUCATION**

**BS Computer Science, Science emphasis, Mathematics minor**  
Utah State University, Logan, Utah

**Fall 2003**