

## Jacob Smullyan

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### SKILLS

Python, C, Perl, bash/Unix toolkit, Java client (Swing) and server (servlet API w/ ATG Dynamo, Websphere, JRun/Resin) programming, WebDAV, XML, HTML, SQL (with PostgreSQL, MySQL, Oracle), CGI, Web design (JavaScript, CSS, Photoshop/GIMP), XML-RPC, Python/C API, GTK+, L<sup>A</sup>T<sub>E</sub>X. Linux/FreeBSD/Solaris operating systems.

### OPEN SOURCE CREDITS

Sole author of SkunkDAV and a lead developer of SkunkWeb (see below)

### EXPERIENCE

#### June 2001 – present: Freelance Developer

- In recent contract assignments, wrote an ecommerce platform (using SkunkWeb) for an online education website, and a Python utility, `http_expect` (soon to be published), for scripting stateful HTTP interactions; helped shepherd SkunkWeb through beta releases to 3.0 final, and released SkunkDAV 1.0.2.3.

#### August 2000 – May 2001: Senior Engineer, Platform Engineering, Starmedia Network

- Wrote a Java/Swing WebDAV client, SkunkDAV, publically available under the Gnu Public License. SkunkDAV is a WebDAV file browser with a reusable RFC-2518-complaint WebDAV client library and a built-in programmer's editor, supporting customizable syntax highlighting for several file types. It is used by web programmers in-house at Starmedia and around the world. SkunkDAV's home page on the web is <http://skunkdav.sourceforge.net>; its CVS repository may be browsed at <http://cvs.sf.net/cgi-bin/viewcvs.cgi/skunkdav>.
- Extended and rearchitected SkunkWeb, a new version of a Python application server written by Drew Csillag and others, with its own templating language and component model. Large portions of Starmedia are powered by SkunkWeb technology. My contributions include:
  1. support for multiple network services and multiple protocols running on the same server; the web application server is now just one specialized service SkunkWeb can provide.
  2. support for request-specific configurability ("scoping"): configuration by virtual host, location, port, file, à la Apache; and acquisition, à la Zope.
  3. a built-in webserver, supplementing the `mod_skunkweb` apache module.
  4. a new implementation of remote components, SkunkWeb's distributed computing solution.
  5. implemented shared memory features, using Ralf Engelschall's MM library and the Python/C API, that permit configuration changes to occur without restarting the server.

SkunkWeb was publicly released under the GPL in August, 2001, and its development continues. SkunkWeb's home page is <http://skunkweb.sourceforge.net>; and its cvs repository is viewable at <http://cvs.sf.net/cgi-bin/viewcvs.cgi/skunkweb>.

## **December 1999 – August 2000: Senior Developer, Scholastic Publications Internet Group**

As Java Developer, responsible for developing:

- a registration and authentication application;
- a templating and validation framework for wizard-like series of forms;
- a library of servlet components that behave similarly to GUI widgets (calendar, tree, table, etc.) that can represent themselves in HTML or XML;
- Various other small projects in Java, ASP (w/VBScript), Python and Perl.

## **Spring 1998 – December 1999: Digital Connection, LLC**

As consultant at Citibank, 111 Wall St., GECD Division: Java programming for multi-tier online global banking system (CitiDirect).

- Responsible for development of global trade applications (both client and server apps), including Citibank's first financial web applications designed for handheld PDA clients. Extended the jHelp help system and integrated it into client application.
- Back end data feed processing using XML and fixed length record formats.
- Designed and implemented a cab patching system for cab-distributed Windows programs like CitiDirect, significantly reducing the download time of updates and thereby making incremental builds feasible. Implemented with ASP, Java, COM, and Perl.

## **EDUCATION**

**Rutgers University, 1987 – 1991, MM/DMA program.** Student of piano and composition; performed Beethoven's late Sonatas and Diabelli Variations; major works by Bach, Brahms, Schumann, Liszt, Chopin, Skryabin, Ives; contemporary music by Babbitt and Wuorinen. Teaching and Departmental Assistant.

**Yale University, BA, 1986.** Senior thesis in African Studies consisted of a rhythmic analysis of West African drumming patterns and original compositions extending and transforming their constructive principles by means of computer algorithms. Studied computer programming in APL, LISP and C with Alan J. Perlis.