

# Matt Boersma

*<matt at sprout dot org>*

## Objective:

I seek a software development position with a growing company.

## Summary:

For fifteen years I have designed, implemented, and tested software for the health sciences and the Internet. Focusing on "the simplest thing that could possibly work," I have:

- Developed genetic analysis, bioinformatics, and chemistry tools.
- Created middleware and clients for a comprehensive healthcare management system.
- Built a simple, powerful interface to edit aggregate database tables.
- Wrote some of the first TCP/IP apps for Windows, including a pre-Netscape web browser.



## Skills:

I excel in Python, Java, C, and C++. My strengths are multitier application development, Internet protocols, UI design, and components.

## Tools:

- Django web framework, HTML, CSS
- Python, numpy, matplotlib, wxPython
- Apache, make, ANT, svn, hg, Trac
- SQL, Oracle PL/SQL, PostgreSQL
- Agile methods, test-driven-development
- Java, Swing UIs, jython scripting

## Work History:

*Lead Software Engineer - [Array BioPharma](#), Boulder, CO, 9/2001 to today.*

I replaced two contractors and rescued their EJB 2.0 chemical workflow management system. Using python, SQLAlchemy, wxPython, django, and cx\_Oracle, I created successful data analysis tools for chemists. I led a series of lectures to teach Python to scientists and IT personnel. I deployed and customized Subversion, Trac, and Apache servers to support our development team.

*Senior Software Engineer - [Genomica Corp.](#), Boulder, CO, 9/1999 to 9/2001.*

I developed Java middleware and infrastructure for LinkMapper. I used SQLJ for bootstrap database code, then moved on to Swing GUI development. I created many Swing dialogs and widgets, including complex JTables. I singlehandedly standardized the build environment, makefiles, and tools with ANT and custom build.xml tasks.

*Software Engineer - [The Radiance Group](#), Boulder, CO, 2/98 to 9/99.*

I created a reporting system with Oracle8, Crystal Reports, Enterprise Java Beans (EJBs), and the Java Native Interface (JNI). I wrote the patient record tool, an administrative module, and many new Swing UI controls and Java utility classes.

*Software Engineer - [Sagent Technology](#), Palo Alto, CA, 12/96 to 1/98.*

I wrote PowerCube, a C++ ActiveX control for high-level analysis of data marts. I added a tool to Design Studio to edit summary database tables in star schemas. I implemented a flexible expression parser and evaluation engine, packaged as a "Transform" COM object.

*Software Engineer - [NetManage](#), Cupertino, CA, 4/93 to 12/96.*

I adapted Sun's JDK 1.02 code to run Java applets in the Websurfer browser. My FTP C++ class shipped as the ActiveX file transfer control in Microsoft's Internet SDK and Borland's Delphi. I put HTTP cookies and extended HTML table layout in Websurfer and added recursive directory copying to FTP in both Win16

and Win32 C code.

QA Engineer - [Mead Data Central](#), Mountain View, CA, 8/92 to 4/93.

Systems Administrator - [CMC](#), Steamboat Springs, CO, 1/92 to 6/92.

**Education:**

- B.A. Public Policy and Russian Studies, [Princeton University](#), 1991.
- Certificate of Proficiency, [Woodrow Wilson School](#) of Public & International Affairs, 1991.
- Classes: *Software Engineering in C*, Colorado Mountain College, 1992; *Digital Computer Programming*, Princeton University, 1991.

**Other Interests:**

- Old-timey banjo, modern drumming, skiing, biking, and video games.