

# ***Resume***

kjohnson@codebynumber.com

**Objective:** To work as a Java developer in a position with long term opportunity for growth in programming skills. Especially interested in graphics programming, user interfaces and accessibility.

## **Work Experience and Skills Summary**

*Datatel, Inc., Fairfax, Va.*

*Java Developer*

January 2007 - present

May 2006 - August 2006 (internship)

Datatel is a \$100M privately held company that provides Enterprise Resource Planning software for higher education institutions throughout North America. ([www.datatel.com](http://www.datatel.com))

Currently **working on the custom server** that routes traffic among all components of the ERP system, a position that has expanded my expertise in Java performance tuning and network programming.

Other skill sets and accomplishments:

- Co-designed and co-implemented **major rewrite of server's network input/output** to address memory performance problems. Resulted in large client contracts being renewed, and decreased technical support for memory issues.
- Designed and implemented a system to retrieve configuration information from clients back to Datatel into a database. Involved client-delivered features, database administration and design, and the creation of an internal tool for data analysis.
- Handled technical support calls from clients, helping them diagnose problems and researching possible causes. Requires breadth of knowledge across entire software architecture.

As an intern, I added functionality to the server to record and play back transactions for use in debugging and automated testing.

## *Software Process Dashboard Open Source Project*

Contributing Java Developer

July 2007 - present

The Dashboard is an open source tool to support engineers and managers in the use of the Personal Software Process (SM) and Team Software Process (SM) as a development methodology. It automates metric collection and analysis to improve the efficiency of engineers and teams.

Hired by project lead to help with development. Doing bug fixes and new feature implementation as needed.

## *Barnard College, New York City Office of Disabilities Services Web Developer/Designer*

May 2005 - December 2006

The disabilities service office grants students extra time or additional resources as needed for their college careers. It also sponsors events and activities promoting general wellness and awareness of disability issues.  
([www.barnard.edu/ods](http://www.barnard.edu/ods))

Worked with staff to add to website, **ensuring Section 508 as well as Bobby web accessibility compliance**. Worked on side project to port website to CSS. Since I had personal experience with JAWS and other assistive technologies, also gave presentations to college faculty and staff about difference in the experience of computer users with disabilities. Resolved many computer problems experienced in the office by the staff.

## *Retail and Customer Service Experience*

Worked in several part-time jobs throughout high school and college, including:

- Target (Summer 2003) - sales associate - assisted customers on the sales floor
- RadioShack (Fall 2002) - sales associate - provided customer service and product information
- Action Music (2000 - 2002) - office assistant, sales associate and receptionist - maintained records for instrument rentals, lessons and repairs; assisted customers

## **Education**

### *Columbia University, New York City B.S. in Computer Science, October 2007*

Graduate of Barnard College, with all major coursework completed at Columbia. In addition to required classes, I elected to take:

- **Fundamentals of Computer Systems** - from the circuit board through assembly language, learned about fundamental functioning of computers. While not directly useful in everyday work, it has allowed me to

demonstrate to colleagues why certain software behaviors are inherently less efficient.

- **Programming Languages and Translators** with Professor Alfred V. Aho - worked with a team to create a programming language designed to gather data from multiple sources and normalize it for easier use. Sample program aggregated names, phone numbers and addresses from several folders and many files into a single file.
- **Operating Systems** - building on fundamentals, learned how the Linux OS works, from network stacks and threading models, to kernel system calls and data structures. I especially enjoyed priority scheduling and the several methods of attempting to optimize certain tasks in a generalized system.

Actively participated in many group projects (including an **implementation of a J2EE and a CORBA enterprise architecture application**) and worked on many graphical user interfaces for user interface design. Also implemented small games using graphics engines.