

Jason Walker-Yung

Education

MS, COMPUTER SCIENCE, New York University, 1998
Concentrations: computer graphics, multimedia, visualization.

BS, APPLIED MATHEMATICS AND STATISTICS, SUNY at Stony Brook, 1996

Tutor

Adult Learning and Resource Center, Consortium for Workers Education/1199 Training and Upgrading Fund

2002-present

Tutoring adults in GED- and CUNY-level math for two hours per week.

Developer

N Space Labs, Inc. (<http://www.nspacelabs.com/>)

2001-2003

- Built web-based map catalog for browsing documents, allowing users to search through over 1000 maps and related documents, and for ordering hard copies of documents. Technologies included Perl, PHP, and MySQL.
 - Designed and implemented templates for browsing documents.
 - Built admin tools to maintain user access and view orders.
 - Wrote scripts to automate updates to the database.
 - New catalogs for new clients could be added in an hour.
- Created interactive online map system ("FlashMap") for browsing geospatial data (for example, Census information). Technologies included Linux, C/C++, Perl, PostgreSQL, MySQL, and Macromedia Flash. See <<http://nspacelabs.com/demos/index.phtml>>.
 - Designed and built the client application using Macromedia Flash.
 - Wrote server-based programs to convert map shape files to Flash and database tables.
 - Wrote server scripts to retrieve maps and metadata via Flash application.
 - Researched and implemented algorithms for such tasks as spatial indexing to speed lookups and polygon simplification for optimizing bandwidth and performance.
 - Installed and configured Linux to support server based programs.
- Redesigned N Space Labs corporate website.
 - Built admin tools to allow marketing and sales staff to maintain website content.
- Wrote documentation for all of the above.

Web Engineer

Jupiter Media Metrix (now Jupitermedia) (<http://www.jupiterresearch.com/>)

2001

- Developed and supported in-house inquiry management application. Technologies included Kana, Windows NT Server, SQL Server, Solaris, Oracle, VBScript, VBA, JavaScript, Java, XML, and XSLT.
 - Added fields to database and customized forms; created queries to populate these fields.
 - Fixed scheduling bugs, correctly putting appointments in MS Exchange/Outlook calendars.
 - Performed system maintenance and software installation.
 - Coordinated with IT staff to resolve performance issues and with DBAs to resolve data integrity issues.

- Developed research site, where clients could browse research documents. Technologies included BroadVision, JavaScript, Netscape Enterprise Server, and Oracle.
 - Rewrote queries to reduce loading time of key pages up to 100 times faster.
 - Built in-house web-based version control/rollout system for coordinating development and deployment.
 - Fixed and optimized search module to get faster, more accurate results.
- Developed JMM marketing site, where prospective clients and members of the press could obtain more information about the company. Technologies included MySQL, Perl, shell scripts.
 - Created forms for storing form responses.
 - Wrote scripts to send daily reports to marketing staff.
 - Set up staging server and rollout scripts, similar to above.

WEB APPLICATIONS DEVELOPER

MaMaMedia, Inc. (<http://www.mamamedia.com>)

1998-2000

- Created constructive fun activities for children on the web. For an example, see Flipsticks: <<http://www.mamamedia.com/activities/flipsticks/home.html>>. Custom versions of many of these activities were sold to companies like General Mills, Nintendo, and Crest. Technologies included Java and Flash.
 - Worked with graphic designers and content producers to maximize enjoyment and ease of use.
 - Led teams of 2-4 developers.
- Developed server-side technology in support of the above applications. Technologies included CGI/Perl and Oracle.
- Design involvement in both client-side interface and application architecture.
- Wrote technical briefs and documentation.
- Advised sales and marketing staff on product and sales considerations.
- Taught in-house JavaScript course for 15 students.

Research Assistant/Consultant

Media Research Lab, New York University

1998-1999

Ported Ken Perlin's Quikwriting applet to Palm OS platform (as seen on Slashdot). "Quikwriting" is an input method for pen-based handheld devices that can enter many characters at a time without lifting the pen. For a demonstration, see <<http://www.mrl.nyu.edu/~perlin/demos/quikwriting.html>>.

Research Assistant (Developer/Webmaster)

Program for The Human Environment, The Rockefeller University

1997-present

- Designed and developed "Loglet Lab" analysis tool. Loglet Lab provides fitting and visualization of logistic growth models; a detailed description and documentation can be found at: <<http://phe.rockefeller.edu/LogletLab/>>.
 - Hundreds of users worldwide, including NASA, McKinsey and Associates, and NYU Stern Business School.
 - Designed and developed application for Windows using Microsoft Visual C++. Currently porting to Java.
- Co-authored two papers on logistic analysis.
- Assembled and analyzed data from various sources to support ongoing research.
- Administered web server and redesigned web site (twice).

RESEARCH ASSISTANT

National Synchrotron Light Source, Brookhaven National Laboratory

1996

Worked in computed microtomography group Produced 3D and 2D renderings from tomographic data. Made enhancements to processing program for use with large samples. Installed hardware for SGI workstations.

Publications

- A Primer on Logistic Growth and Substitution: The Mathematics of the Loglet Lab Software. *Technological Forecasting and Social Change*, 61(3), 1999.
- The Loglet Lab Software: A Tutorial. *Technological Forecasting and Social Change*, 61(3), 1999.

Professional Associations

Association for Computing Machinery (ACM)