

# JASON BEAVER

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## SUMMARY

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I have designed and developed dozens of large software applications for companies throughout the world. I am extremely adept at all phases of software development, from high-level system design to assembly language. I am looking for a challenging position with an energetic team of intelligent and highly motivated individuals working on leading edge software solutions.

## EXPERIENCE

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### **Tech Lead, WebToGo Engineering** **1998 – 2002 AvantGo, Inc.**

**Hayward, CA**

Technical lead and senior developer for the WebToGo group which built an HTML 4.0 web browser for handheld devices on a variety of operating systems. Responsible for design and implementation of large parts of the browser.

- Managed a team of engineers responsible for building the Windows CE, EPOC, and RIM Blackberry versions of the AvantGo client.
- Responsible for the overall design of latest version of the AvantGo client software. Software had to be highly portable and easily deal with the limitations of the various PDA platforms and operating systems.
- Architected a plugin model for the AvantGo client that allowed developers to vend web content to the browser, vend objects to JavaScript, intercept system events, and control browser behavior.
- Designed and implemented an object system in C which allowed the browser to be built using object oriented development techniques.
- Implemented a plugin for the AvantGo client to allow access to barcode scanning hardware from JavaScript.
- Designed and implemented a device caching layer for rapid document lookup by URL. This involved offloading some of the processing to the server to achieve needed performance on the device.
- Designed and implemented a cross platform database layer for storage of content and other data on a wide variety of operating systems and platforms including PalmOS, Windows, Windows CE, RIM Blackberry, EPOC, and Mac OS X.
- Responsible for porting the original version of AvantGo client software from Palm OS to Windows CE.

### **Senior Software Engineer** **1995 - 1998 SBC Warburg Dillon Read**

**Chicago, IL**

Senior architect and developer for the Off Balance Sheet (OBS) group which focused on interest rates products. Responsible for design and implementation of large parts of the OBS system.

- Designed and implemented a scalable multi-threaded server network to handle distribution of financial curve information. This included a hierarchical curve caching mechanism, real-time curve updates from Reuters, and the ability to dynamically configure the server network.

- Rearchitected the default memory allocation system used by key objects within OBS. This resulted in an overall memory footprint reduction of approximately 15%, saving approximately \$2M annually in reduced hardware requirements.
- Designed and implemented a “Quick-Build” mechanism which reduced the build time of the OBS system to less than one tenth of the original build time. This dramatically improved developer productivity by nearly eliminating down time spent during system builds.
- Ported a large Objective-C back-end processing server to Windows NT. This included completely rearchitecting the archiving mechanism used to send objects between our clients on NEXTSTEP and our back-end processing server.
- Wrote an IRC client, currently in use by thousands of SBC employees throughout the world. This significantly enhanced the productivity of traders by allowing them to work more efficiently.
- Wrote dozens of developer productivity tools to automate routine tasks.
- Developed and maintained two large libraries of reusable objects. These libraries are in use in a number of development groups throughout SBC.

### **Senior Software Engineer**

**1993 - 1995 Vanguard Software, Corp.**

**Cincinnati, OH**

Senior architect and developer for systems at a number of client sites throughout the United States.

- Designed and implemented a system for tracking gas futures trades for a gas company’s trading floor. This system captures live pricing and volume information and feeds it to a large overhead display which is controllable from each trader’s workstation.
- Designed and implemented a system at a large Midwestern drug store chain for generating custom patient information documents when a prescription is filled. This system made use of an expert system written by NASA for making the decisions on how to construct the document.
- Wrote a very complicated Enterprise Objects Framework (EOF) front end on a mathematical modeling application. This required substantial EOF knowledge, Sybase knowledge, managing remote UNIX subprocesses, and a custom parser to analyze the results.
- Designed and developed an extremely high-end image manipulation and color correction application for accurately mapping colors from a particular scanning device to a particular output device. This dramatically improved efficiency and output quality of the color processing shop.

### **Campus Consultant at the University of Kentucky**

**1991 - 1993 NeXT Computer, Inc.**

**Redwood City, CA**

Assisted NeXT sales force with demos, shows, and writing prototype software for proposals. Assisted university faculty and staff with custom software development, training, and system administration.

- Awarded a NeXT workstation for assisting the NeXT sales force in a large sale.
- Developed a presentation application for extremely large images. Images could be zoomed and panned, and captions could be added. This application was used for a Vatican artwork exhibit which was part of a series highlighting technology in education.
- Served on the board of directors of the Kentucky NeXT User’s Group.

## TECHNOLOGIES

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- Programming Languages: C, Objective-C, C++, Java, XSL/XML, SQL, PostScript, Python, Ruby, Motorola 68000 Assembly, Intel x86 Assembly, ARM Assembly
- Operating Systems: Windows NT/2000, Windows CE, PalmOS, RIM OS, Linux, Mac OS X, NEXTSTEP, HP-UX
- Development Environments: PalmOS, RIM OS, Mac OS X Cocoa, NEXTSTEP Developer, WIN32, JDK 1.2.2, Swing, IFC

## OTHER PROJECTS

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- Wrote numerous freeware applications for NEXTSTEP and Mac OS X
- Wrote two demo applications in Java for Netscape to highlight their new IFC classes. These are available at <http://developer.netscape.com/docs/manuals/ifc/examples/thirdparty/thirdexamples.html> under the company name Black Diamond Software.

## OTHER ACHIEVEMENTS

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- Eagle Scout
- Author of the book "Late Night Netscape IFC" by Ziff-Davis Press
- Private Pilot's Certificate

## EDUCATION

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### **B.S. in Electrical Engineering**

**1988- 1993**

**University of Kentucky**

**Lexington, KY**

- Specialization in computer engineering, microprocessor design, and communication systems.

## INTERESTS

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- Flying
- Juggling
- Arcade game collecting
- Photography

## REFERENCES

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Available upon request