

Amy Gale Bowersox – Senior Software Engineer

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Summary

Amy can do anything she sets her mind to, and has done enough things over the course of her career to justify that statement. She wants to use this talent to do great things for an innovative company, and wants to work with teammates interested in the same thing.

Major Skills

- Python 3 development, RESTful API integration
- Java development, J2EE, Weblogic, Spring, Spring Integrations, Servlets, JSP, Tomcat, JDBC
- SQL, MySQL, Oracle
- HTML, CSS, JavaScript
- C/C++, network programming
- Git, GitHub, GitLab, Jira, Confluence
- Developer Relations and online community

Education: University of California at Santa Barbara

- **Bachelor of Science (with honors), Computer Science, 1990**
- Emphasis on Programming Methodology including Software Engineering
- Member of Tau Beta Pi, California Sigma chapter

Work Experience:

Carbon Black Inc./VMware Inc./Broadcom Inc., 2019-2024

- **Senior Software Engineer (Member of Technical Staff 3)**
- Cloud-based computer security management system (Carbon Black Cloud)
- Member of *Developer Relations* team, handling integrations, developer tools, documentation, evangelization.
- *Primary maintainer and active developer* of Carbon Black Cloud SDK for Python, <https://github.com/carbonblack/carbon-black-cloud-sdk-python>. This required a breadth of knowledge across the entire product, as I wrote most of the SDK code and documentation.
- CBC SDK is used by about *25% of customers* (all of top 10, 75% of top 50) representing *50% of cloud revenue*. Their SDK use correlates with an *increase of product login frequency*, and customers using the SDK are *10% more likely to renew* than not.
- Contributed to other projects such as the Binary Toolkit, <https://github.com/carbonblack/cbc-binary-toolkit>.
- Contributed to Developer Network documentation, <https://developer.carbonblack.com>.
- All these *increased customer integration* with Carbon Black Cloud, *improving product “stickiness.”*
- Established and sponsored weekly developers’ “Kaffee Klatsch” to discuss current problems and find solutions.
- Tech stack: Primarily Python, accessing RESTful APIs in Carbon Black Cloud.

IQNavigator Inc./Beeline Inc., 2011-2019

- **Java Developer 2**
- SaaS product for managing temporary and contract labor spend (FrontOffice)
- Worked on a variety of areas of the application; often called upon to respond to *urgent customer issues*.
- Developed a *universal XML-based format* for representing customer data, allowing *reduction of turnaround time by 80% or more* for custom integrations with customer systems, as well as load-balancing integrations across servers.
- Tech stack: J2EE/Weblogic, Spring/Spring Integrations, Oracle, XML, REST, JavaScript, HTML/CSS

Dash Carrier Services LLC, 2010-2011

- **Software Engineer**
- Routing of 911 emergency calls for voice-over-IP telephony providers
- Helped establish key pieces of the development and production environment, *improving deployment times by at least 25%*.
- Developed a *new service* for transmission of Automatic Location Identification (ALI) data directly to 911 call centers, filling in *vital information* for handling emergency calls.
- Tech stack: J2EE/Tomcat, Spring, MySQL, PostgreSQL, REST, HTML/CSS, other communications tech

Aspen Systems Inc., 2003-2009

- **Software Engineer**
- Management software for supercomputer cluster systems (Aspen Beowulf Cluster Management System)
- *Developed most of the application*, with features including SNMP and IPMI monitoring, remote command execution, package management, node imaging and restoration, device monitoring including UPS and power distribution systems, and job-scheduling systems.
- Contributed a hardware sensor driver port to the *Linux kernel 2.6 series*.
- Tech stack: J2EE/Tomcat, SQL, HTML/CSS, C/C++, Perl

Avaltus Inc., 2002-2003

- **Software Engineer**
- E-learning and computer-based training system (Jupiter)
- Improved media storage systems for courseware, using WebDAV storage APIs, in response to *customer demand*.
- Tech stack: J2EE, custom Java applets, SQL Server, HTML/CSS, JavaScript

NAREX Inc., 2001

- **Senior Software Engineer**
- Online auction system for debt placement and sales to the collections industry (NAREX Recovery Optimizer)
- Tech stack: J2EE/Weblogic, Oracle, HTML/CSS

Jabber Inc., 2000-2001

- **Senior Software Engineer**
- Open-source XML-based instant messaging platform (Jabber) (XMPP protocol)
- Early commercial contributor to the project.
- Developed a *new* Jabber transport interfacing to ICQ messaging and a Java-based Jabber client library.
- Tech stack: C, Java

Durand Communications Inc./Webb Interactive Services Inc., 1995-2000

- **Senior Software Engineer**
- Online “portal” environment (WebbMe)
 - Developed a complete consumer Web-based E-mail service (WebbMail).
- Online community hosting system (CommunityWare)
 - Did extensive work to integrate the Electric Minds community with CommunityWare.
 - Tech stack: C/C++, ASP/VBscript, SQL Server
 - Following closure of the Webb Interactive portal servers, reimplemented the basics of CommunityWare as an open-source project using the J2EE/Tomcat and MySQL tech stack (Venice Web Communities System), which hosted the Electric Minds Community for years afterward.
- Client-server BBS and applications server (MindWire)
 - Tech stack: C/C++, proprietary display and communication technologies

Additional Related Experience:**Majestic Hearts of All Colorado, 2019-present**

- **Secretary to the Board of Directors** (*volunteer position*)
- 501(c)(3) organization raising money for other charitable organizations through drag performances and other activities
- Handled many aspects of running the organization’s activities, especially its annual Pageant, including graphic design, publications and printed materials, management of fundraising activities, technical support for the Pageant Owner, financial oversight, and relations with the current reign and other performers.
- Also: Past titleholder (Ms. Majestic Hearts 2018-2019, Miss Majestic Hearts 2015-2016).

Gender Identity Center of Colorado, 2015-2018

- **Member of the Board of Trustees** (*volunteer position*)
- 501(c)(3) organization providing counseling and other services to transgender and gender-variant individuals
- Responsible for overall oversight of the organization, including appointing the Board of Directors and the Executive Director, management of the budget and financial reports, and necessary changes to the Bylaws.