

K L Bennett

More than 10 years of experience in security analysis, security-related software validation, project management, troubleshooting, mentoring, and documentation. Areas of expertise include:

- System analysis, scripting, HTML, XML, debugging, penetration testing, and ethical hacking
- Technical writing for proposals, accreditation, user documentation, and presentations
- UNIX and Windows based operating systems
- Working with the industry, government, and academia

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Education

[Georgia Institute of Technology](#)

MS, Electrical and Computer Engineering

[Auburn University](#)

MS and BS, Applied Mathematics

Additional Training and Contributions

Electronic Frontiers of GA (2018–Present) – Contribute to legislation review and discussions with state employees and elected officials in regards to cybersecurity concerns.

DefCon 18, 19, 20, 21, 22, 24, 25, 26 (2010–2018), B-Sides (2018–Present) – Sessions demonstrated a variety of hacking techniques including: root control of IoT devices, detection/prevention of malware; remote system attacks, and genome hacking

CES (2012,2014) – Latest gadgets are listed on <http://lastgadgetstanding.com>. IEEE noted that as the quality of phone cameras improve, the quantity of compact cameras will decrease. Sharp demoed the Aquas Board display with Compact Whiteboard PC, which could be very useful for Agile projects.

Software

LINUX, UNIX, AIX, IRIX, Solaris, Windows, C/C++, AppScan, Selenium, Firebug, Paros/BURP/WebScarab, Fortify, Apache, MATLAB, Mathematica, AWK, Shell/Batch scripting, HTML, Basic SQL, Rhinoceros 3-D (CAD), JProfiler

Awards

Northrop Grumman Mission Systems (Missile Defense Division, XonTech Systems) Individual Award for Recognition of outstanding analysis, mathematics and RCS modeling contributions

Experience

2021 – Present, *Home Renovator*

- Home repairs and renovations: carpentry, drywall, wallpaper, painting, minor electrical and plumbing
- Designed and built custom closets from salvaged wood

Georgia Tech Dance Association and GT Salsa Club

2010 – Present, *Dance Instructor*

- Teach dance, provide lessons to students on how to teach dance, and advice the Georgia Tech Dance Association (GTDA) Swing Dance organization.
- Periodic Salsa, Bachata, and Cha-Cha instructor for the GT Salsa dance organization.
- Fluent in multiple dance styles including Swing, Salsa, Bachata, Blues, Carolina Shag, Argentine Tango, and Ballroom

Nagra

2013 – 2020, *Senior Integration Support Engineer*

- Verified the security of cable, satellite, and IP-based set-top-boxes for the purpose of protecting paid content.
- Analyzed the software security of the Linux-based operating systems in which the set-top-boxes are built on to determine if any changes needed to be made to limit security vulnerabilities.
- Performed hardware tests to insure the boxes could not be physically tampered with to gain additional access.
- Managed projects on a weekly basis, including weekly meetings with the partners, who produced the boxes, and sometimes also the customers (content providers) that requested the security certificate for the box.
- Generated the initial internal wiki pages (Confluence) for my team and kept them up-to-date with project information as well as information on internal tools.

Intuit

2008 – 2012, *Senior Quality Assurance Engineer*

- Developed test plans and use cases to adequately exercise functional, system, and security requirements for three online banking web applications, including one designed for mobile. The mobile version was initially deployed successfully with zero reported defects to production.
- Using the OWASP Top 10 as a guideline, performed security testing for the web applications utilizing automation (AppScan) and manual methods to ensure scenarios not covered by AppScan were covered using Paros/Burp/WebScarab, TamperData, and/or TamperIE as needed. Forced browsing, privileged escalation, authentication bypass, information leakage, session management (such as cookies, jsessionIDs, etc) were also verified. Performed periodic search engine hacking tests.
- Contributed to multi-regional Agile meetings in regards to product design, integration requirements, and other operational aspects including providing all known paths the user could take as well as suggestions for guarding against Denial of Service (DOS) attacks.
- Developed and executed SQL scripts, batch scripts, shell scripts, perl scripts, and simulator configuration files for the purpose of more effective and efficient testing. Automated functional smoke test cases using Selenium.
- Managed and maintained functional and security defects using Quality Center, Pivotal, and Rally.
- Driver for the Mobile Web Application Testing Principles used by the Intuit Community.

Vocalocity

2006 – 2007, *Quality Assurance Manager*

- Managed both local and offshore Quality Assurance (QA) Teams in assuring quality with the current system as well as the new system yet to be deployed. Reported directly to the CTO on all quality control of the VOIP Hosted PBX systems. Ensured all requirements were correctly implemented according

design specifications.

- Managed environment change requests and system configurations for the QA Servers to ensure a smoother transition to the Production environments. Set criteria for passing in QA before a release to Production. Performed root cause analysis, practiced risk mitigation, and moderated conversations between the Development, Product Management, and Sales when appropriate.
- Administered a ticketing system (JIRA) to track all defects, enhancements, and new features. Initiated process improvement related to the requests for software changes, builds delivered, and targeted releases. Provided the Development and Support teams with policies and procedures for consistent infrastructure management and standards. Tracked the release process, keeping all team members informed about the state of the release, dates, bug counts, and plan for release to Production. Decided where to put defects in the release map based on severity, probability of occurrence, and customer values.
- Coordinated physical environment use and planning to ensure all QA Team members had test equipment, account permissions, and other items needed. Assisted the Development Team and IT Engineers/Administrators in troubleshoot issues during and after launches.
- Tested provisioning of SIP-based phones, PBX configurations, account setup, billing, call routing, and call quality. Perform end-to-end testing of auto-attendants, call queues, call forwarding, caller ID, call groups, conferencing, call logs, and billing.

Industrial Logic Corporation

2005 – 2006, *Software Test Engineer (Research and Development)*

- Tested all aspects and components, including the back-end servers, GUI clients, and Web interfaces of MaxView (a network wide monitor and control solution). Provided technical direction for software engineers, including enhancement ideas, documentation, reviewing, and executing test procedures in a CMMI compliant environment.
- Tested and documented software defects and created enhancement requests through a bug/feature tracking system. Designed Test Plans for new software and augment existing ones.
- Managed the Quality Assurance (QA) portion of the Defect Tracking system to ensure that Defects and Enhancements were propagated through QA sufficiently and in a timely fashion. Ensured our Co-ops had prioritized assignments. Trained new employees.
- Kept the QA Lab updated and configured for optimal QA testing, including installation of both hardware and software. Installed and configured new software for Windows, Solaris, and Linux environments.

Northrop Grumman Mission Systems

2005 – 2006, *Systems Engineer 3*

- Provided mathematical analysis of physical models for advanced discrimination techniques.
- Analyzed simulation data and provided technical direction for software engineers, including software testing, enhancements, documentation, reviewing, and executing test plans and procedures in an ISO 9000 compliant environment.

Department of Mathematics

1997 – 2000, *Graduate Teaching Assistant*

- Lectured classes with minimal supervision. Created and graded tests and assignments for Pre-Calculus with Trigonometry, Algebra, Calculus 1, and Business Calculus.