

David C. Lyon
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RESUME

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< EDUCATION

■ Degrees and Certifications

- **B.S. and M.S.** Computer Science, Central Michigan University, Mt. Pleasant MI
- **SANS GIAC** Security Essentials Certification (GSEC) GOLD status
- **SANS Staysharp** Packet Analysis Certificate (active)
- **SANS GIAC** UNIX Security Administrator (GCUX) GOLD status
- **SANS PAGE** <http://www.giac.org/certified-professional/david-lyon/105167>

■ Continuing Education

- SANS GCUX San Jose State University, 2007
- Canadian Blackboard Users Conference, 2006
- Secure IT Conference - 2003,2006,2007
- IP3 Seminar 2006
- Information Assurance Symposium 2005 certificate
- SANS Staysharp training (Packet analysis, FAT File System)
- CISSP Common Body of Knowledge training certificate
- SQL Server Training, Cal Poly Pomona
- Windows Server Training, Quickstart certificate
- Blackboard Users Conference - 2005 and 2006
- TechEd Conference - 2005
- Windows Server 2003 Seminar (coordinator), Quickstart
- WebCT Impact 2003 conference
- Designing a Secure Microsoft 2000 Windows Network (coordinator), Quickstart
- ISSA (Information Systems Security Assoc.) meetings
- Training related to Title V funded cyber-security related grant
- CAS (Course Applicability System) User's Conference, Miami University
- Implementing and Administering MS Windows Directory Services, Quickstart
- PeopleSoft Configuration & Administration, PeopleSoft Ed. Services
- Network Security - An Introduction, DECUS Seminar
- Clear Writing, Brogan Clear-Writing Seminars

< SKILLS

Developed application and tools to manage assigned projects and developed very thorough project documentation.

- **Software** - Perl, JavaScript, HTTP, CSS, C, Fortran, DCL, Bourne shell
- **Security** - SSH, MBSA, SSL, PGP/GPG, Nessus/NMAP, Host Firewalls
- **Hardware** - IBM X series, Dell, clones, Compaq/Alpha, Sun
- **Systems** - NT4/2000, Terminal Server, Red Hat/Linux, OpenVMS
- **Database** - Oracle (SQL, Oraperl), Access, OpenOffice Base, MS Project
- **E-Learn** - Blackboard, WebCT, Building Blocks
- **Services** - Perl CGI, IIS5, Apache Web, Tomcat, VMS Web
- **Protocols** - TCP/IP, DECnet IV-V, LAT, SNMP
- **Network** - NFS, PATHWORKS, Metaframe, VMS-TCP, Ascend (PPP)
- **Messaging** - PMDF, Sendmail, Exchange, mail gateways

< JOB EXPERIENCE

< Cal Poly Pomona University, Systems Analyst (Expert Classification)

3801 W. Temple Ave., Pomona, CA 91738

6/93 to Present

■ Security

Furthered the cause of security in lieu of the division hiring a full time ISO. Past campus lead for the concluded Title V funded grant "Improving Access at Hispanic Serving Institutions". Led the risk assessment team that helped develop the framework for a campus risk assessment. Also directed the efforts to perform vulnerability assessments.

- Member of the hiring committee to hire security staff
- Facilitated the creation and maintained security website and provided weekly bulletin reports and web content. Assisted ISO staff in this effort.
- Created security related documentation and worked on policy development.
- Created security resource targeting Learning Management Systems.
- Joint planner for Cal Poly Cyber Security Fair and member of committee.
- Hired and managed student employees.
- Manager for student teams providing deliverables.
- Provided assistance to security related classes.
- Developed encryption tools and SSH utilities.
- Interface to the campus technical group on behalf of Title V project.
- Organized security related training for campus community.
- Provided script/application hardening, account tracking application.
- Formed the first Cal Poly incident response team.
- Developed secure file transfer application providing accountability for PeopleSoft project team file transfers.
- Oversaw security for the SEVIS project.
- Developed (and currently enhancing) security reporting, intrusion detection scripts/libraries for Windows, bulletin reporting tool.
- Providing security auditing and configuration for LMS (Learning Management Systems).
- Configured Windows host based (IPSec) firewall and wrote script to dynamically manage.

■ Applications and Tools

Created configuration management application.

Create **project management tools** to augment Microsoft Project, creating reports and notification of due tasks.

Developed Perl application to convert text to HTML for project/other documentation (including this Resume) and to quickly write and maintain Web forms.

Developed CGI for Help Desk and Operations to have Web interface for systems and network checks and troubleshooting, providing them with call routing, fault notification.

Developed Web interface and set of tools to empower the campus community to manage their own Listproc lists, automating nearly the entire process.

Developed CGIs and enterprise web site. Deployed the OSU web server, Perl, and OpenSSL on OpenVMS. Created tools to support the rapid development and deployment of Web pages and CGI scripts employing tight configuration control with thorough Web based documentation.

■ PeopleSoft and Metaframe

Worked with a large team with participants from Cal Poly, the California State University, and a consulting group to be one of the first CSU campuses to implement PeopleSoft as part of the CMS (Collaborative Management Systems) initiative. Project will provide a

common central data store for California State universities. Deployed prototype environment hosting both Oracle Forms (Banner GUI) and PeopleSoft. Assisted in the deployment of the PeopleSoft Portal product and managed the application servers and provided support to the developers.

■ **Learning Management Systems**

Technical project lead for Blackboard administration and migrations. Maintaining project plan/documentation, policy and procedure documents, directing staff, vetting Blackboard extensions, assessing security risks, providing direction, liaison to upper management. Developed quarterly maintenance procedure and change control documents, coordinating with management, DBAs, and others.

Managed WebCT version 3 and executed the migration to WebCT version 4. Developed scripts to support the successful migration. Also deployed Blackboard Learning and Community Portal system in a multi-server environment. Created scripts for auto-enrollment, backups, data mining, and other purposes. Working closely with the I&IT Learning group and worked with a team to develop a unique alternative to the existing Blackboard backup method to greatly reduce the amount of downtime required.

■ **SEVIS (Student Exchange and Visitor Information System)**

Was technical project lead for the SEVIS project. SEVIS is a government tracking system for foreign students. Worked with a team to develop campus infrastructure that would link to the SEVIS system to ensure the university met the SEVIS filing deadline. Developed infrastructure and scripts required to provide a secure means of data transfer and conversion. Developed conversion process to convert student data to XML format for input into the fsaAtlas system.

■ **Directory Services**

Developed scripts to convert campus phone book data to X500 and to provide LDAP service for both staff and student white pages. Procedure for changes now automated and triggered by student data change and paper phone book changes.

■ **NT and OpenVMS**

Was project manager for the campus NT 2000 Active Directory migration proof of concept. Worked with campus team and Unisys.

Facilitated project to integrate existing OpenVMS into a new campus NT environment, leveraging the investment in OpenVMS. Worked with team to develop a plan and proceeded with campus wide implementation. Successful team planning led to excellent success. Created complex Perl application/CGI to automate and simplify account maintenance. Also developed complex network backup design and utilities.

Completed install and configuration of first department Exchange server to support work group calendaring.

■ **Web Development**

Developed project websites incorporating CSS, JavaScript, and CGI.

Created several Web applications to support Learning Management Systems including request forms and account management. Created Blackboard guest account application (emphasis on security) that was full life cycle (account request to expiration) and integrated with Blackboard and the student information system.

Implemented first university web server.

■ **DARS**

Ported Degree Audit Report System (DARS) to Solaris and provided porting information to the vendor. Managed DARS with responsibilities that included DARS server updates, builds, and monitoring tools used by DARS auditors. Configured CAS (Course Applicability System) front end for DARS on Windows 2000. Assisted in the development of Darsweb customization and deployment.

< Hughes Training Inc., Senior Software Engineer

West Covina, CA

5/87 to 4/93

■ System and Network Administration

Functioned as lead system and network administrator.

Managed and configured VMS VAXCluster, Sun file servers, Sun client workstations, HP Apollo workstation, NCD X terminals, and Symbolics workstations.

Functioned as site network manager for a significant segment of the Hughes WAN. Supervised operations staff.

Developed VMS and UNIX automated operator environments, problem tracking application, monthly gathering and report application, and screen library.

Trained users to work effectively in computer environments. Contributed to knowledge base through on-line and written reporting.

■ Software Engineering

Developed a large critical part of a configuration management system that included several Oracle forms applications and a sophisticated reporting tool.

Developed proprietary database applications for projects.

Developed tool sets that made significant improvements in productivity by automating processes. Received an award for cost savings generated.

Developed a project-critical application to automate an EPROM burning process.

< AWARDS

- Received three PeopleSoft Project awards since 2001.
- A recipient of the "President's Award for Excellence through Teams" Award in 1998.

< PRESENTATIONS

See <http://www.davelyon.org/presentation/index.shtml>.

- 2007 Computer Security Awareness Video Contest
Internet2 Meeting, co-presenter and panel member
- Developing a Cyber Security Awareness Program
Spring 2007 Secure IT Conference, co-presenter
- Reinventing Blackboard Backups
Spring 2006 Blackboard Canada Conference, presenter

- Title V Grant - Year Four Presentation

Summer 2005, Cal Poly Pomona University, presenter

- Creating a Campus NT Network Using NT4 and OpenVMS

Fall 1999 DECUS Symposium in San Diego, co-presenter.

- Other

Conducted information technology related workshops at Cal Poly Pomona and was a speaker at student IT association meeting.

< ASSOCIATIONS

- EDUCAUSE

Currently a member of the EDUCAUSE Higher Education Information Security Council – Awareness and Training Working Group. Worked on subgroups responsible for the Student Video Contest (2006, 2007), executive video, training templates (created legal issues training template), Quick Start guide, and podcasts. Chaired the Student Video Contest 2008 subgroup. Co-chair and later chair of the NCSAM (National Cyber Security Awareness Month) subgroup and co-chaired the Student Video Contest subgroup, both for 2012.

- SANS

A current SANS member holding two certifications and one certificate. Published papers available at <http://www.giac.org/certified-professional/david-lyon/105167>.

- Committees

Was a member of the hiring committee to hire Systems and Network group director for Cal Poly Pomona. Also attended division budget committee meetings.

- Japanese American National Museum - past volunteer.