

8334 Abbey Road
Richmond, Virginia 23235
(804) 272-1984 (Home)
(804) 819-9444 (Cell)
chuck@purple-egg.com

Charles G. Woods

Summary: Technical leader with twenty-seven years of experience with increasing responsibilities in large-scale application and data design, development and implementation. Strong focus on general systems architecture, infrastructure, LDAP directory services, security, PKI, application and database design, and identity management. Skills include project management, technical management, and architecture as well as hands-on design, development, and operations. A reputation for exceeding expectations in leading efforts to define, develop and implement new products, services and technologies.

Experience: **AOL Inc.**
System Architect, 1/02 to 3/12

- Led a team responsible for design and development of a wide variety of tools, applications and services to support AOL's mobile messaging and advertising initiatives. Worked with the product management, mobile engineering, and advertising teams to define services and requirements, and wrote code primarily using PHP/JavaScript as front-ends to Java servlets.
- Developed and maintained numerous applications, web sites and services for partner support, mobile system configuration and management, CRM, and mobile advertising provisioning. Depending on need, constructed sites constructed using Sugar, Drupal, Mambo, or from scratch. Built services and tools using Perl, PHP, JavaScript, shell scripts, and Java Servlets.
- Responsible for day-to-day partner relationship management for multiple partners using mobile and mail services.
- Provided guidance, advice and technical assistance to a variety of partners implementing AOL's Mobile, Open AIM and Open Auth services. Frequently involved in high-level pre- and post-sales discussions, and provide architecture and design advice as well as third-level support to partners as needed.
- Heavily involved in the design and development of multiple partner applications relying on identity federation and delegated authentication, using both SAML 2.0 protocols and proprietary solutions. Activities ranged from providing high-level executive briefings to writing sample code to illustrate various features to partners and to AOL management.
- Served as System Architect responsible for design and development of AIM Identity Services. Responsible for planning, analysis, design, testing, implementation and operations as well as overall architecture. Designed provisioning systems and workflow via other AOL backend applications. Managed technical development tasks performed by other team members. Served as technical expert in a number of client briefings and in coordination with other AOL organizations.
- Responsible for the design, development and implementation of the infrastructure to support a number of joint efforts between AOL's Mail and AIM teams. Designed and built a large-scale (up to 100 million entry) LDAP directory service that served as the master source of domain-related data across AOL, and managed the development of a set of web services designed to provide access to the data. Also filled the role of primary LDAP expert with the AOL operations team, and am frequently called on to provide guidance and assistance to other teams using LDAP within and external to AOL.
- Was Senior Architect responsible for the design, development, and implementation of a PKI to support 1-click certificate enrollment via the AIM client. Integrated PKI with delegated identity services, allowing for both remote certificate authentication and Hosted Federated Authentication. Responsible for overall system analysis, design, development, and implementation, operations support, and oversight of the development team.

**Netscape Communications Corporation/
iPlanet e-commerce Solutions/
America Online, Inc.**

Architect, Professional Services, 1/99 to 1/02

- Served as Senior Architect responsible for the design and development for the corporate LDAP Directory Services for AOL Time Warner Corporation. Responsible for overall planning, analysis, design and development effort, and for coordinating efforts of junior implementation staff.
- Was Senior Architect for a corporate LDAP design and recovery effort for a large financial services company rebuilding after 9/11. Responsible for providing advice and guidance on numerous data and operations recovery issues, as well as advice on strategy for long-term LDAP operations.
- Developed preliminary directory architecture for a large motion picture studio, managing identities and access controls for a widely disparate group of employees, contractors, and loosely affiliated entities.
- Designed core directory architecture and implemented directory and provisioning services for a large South American banking portal. Conducted business analysis, developed associated documentation, implemented base portal framework, designed core architecture, and installed, configured and tested directory services. Trained prime contractor staff in apache and tomcat server configuration and operations as well as implementation of Sun Portal Server. Provided basic Linux training to prime contractor staff, and directed the work of several team members.
- Acted as Security Architect for large-scale extranet development effort within a major US commercial bank. Conducted business and security requirements analysis, developed associated documentation, developed core architecture, and constructed development PKI facilities.
- Developed architecture for a LDAP directory failover effort for a large telecommunications customer. Solution designed to provide redundancy and high levels of availability for extranet applications.
- Provided guidance and expertise in the development of an object signing solution in support of an executive information system at large shipping company. Diagnosed problems, recovered legacy capabilities, analyzed options, provided recommendations, and implemented solution.
- Developed core architecture, CPS and Certificate Policies for a US Government Agency to support their internal directory and PKI implementation. Conducted business analysis, constructed directory and provided relevant PKI and architecture documentation.
- Developed directory architecture for a large multinational satellite communications firm. Design required extensive customization for integration with a wide variety of legacy systems.
- Participated in numerous technical briefings and presentations for customers and potential customers.
- Served as a second-level reviewer of work performed by more junior consultants. Reviews focused on ensuring appropriate capacity planning, throughput and performance as well as reasonableness of overall design.
- Developed tools and system components as needed, primarily using Perl, PHP and JavaScript.
- Provided LDAP and PKI training for customers as well as other contractors.
- Received numerous commendations from customers.

Resume of Charles G. Woods

Page 3

U.S. Securities and Exchange Commission

Branch Chief, 8/92/ to 1/99

- Managed a staff responsible for software design, development and maintenance activities. Responsible for of multiple mission critical and highly visible projects, including operations and security of the SEC Internet site, development of an Agency-wide Intranet, redevelopment of a electronic commerce system to track SEC filing entities, filings, and associated fees, integration of other SEC systems with the EDGAR electronic filing system, and a variety of systems designed to track and report on market trading data.
- Responsible for all SEC efforts to design and implement a public key infrastructure for purposes of X.509 certificate-based authentication. Represented the agency in technical and policy-related PKI discussions with securities industry organizations and with other Federal agencies. Delivered numerous internal briefings and lectures on PKI and the certificate authentication model. Developed internal SEC certificate policies and Certification Practice Statement. Implemented internal CA services.
- Managed a team responsible for internal security, including server and network security reviews, planning and coordination of penetration studies, and documentation of penetration analysis findings.
- Responsible for oversight of a team responsible for all tasks related to Internet server security, including design and implementation of tools and ongoing processes required to maintain a high level of security in the face of an increasing number of exploits.
- Managed the design, development and implementation of internal directory services, including customized HTML gateways and customized data synchronization between ADABAS and LDAP directory services.
- Led an emergency task force charged with resolving critical problems inherent in the design of the SEC filing fee system (an electronic commerce system). Highly visible project, directly under the supervision of the Executive Director. Stabilized the system and accomplished goals weeks ahead of schedule.
- Charged with porting legacy mainframe-based applications to client/server technology.
- Served as Contracting Officer's Technical Representative for multiple development and maintenance contracts. Served as lead technical reviewer during EDGAR competition.

Team Leader, Technical Support, 2/88 to 8/92

- Led a team of computer specialists responsible for technical support of users of the EDGAR system. Provided training and technical support to staff and SEC filers covering PC operations, troubleshooting, database design, limited high level programming, and data communications. Strong emphasis on asynchronous and bisync 3780 protocols.
- Assisted with design and implementation of a help desk; managed daily help desk operations. Independently designed, coded, and implemented a help desk tracking system.
- Conducted numerous public demonstrations of both the pilot and operational EDGAR systems.
- Assumed the role of lead troubleshooter for the EDGAR pilot, and planned and conducted the agency's first formalized software acceptance tests.

Education: **University of Tennessee**
B.S., Operations Management, 1981
M.B.A., Management and Finance, 1983