

Jerry B. Altzman

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Summary

Well-rounded technologist, capable and proven in both development and systems, seeks a position as a “hands-on” manager of systems or development.

Computer Languages and Operating Systems Spoken:

PHP,C/C++, Fortran (9x and HPF), FORTH, LISP, Java, Visual Basic, SQL, REXX.

Unix (BSD and System V flavors), VM/CMS, Windows workstation and Server Cisco IOS 12 and Catalyst OS.

Fluent in UML modeling methods for software architecture.

Employment History

April 2005-Present

Three Phase Computing, Inc.
www.3phasecomputing.com

Principal

- Built a consulting business from scratch.
- Provided custom programming services and IT/sysadmin services for numerous clients, simultaneously.
- Negotiated contracts, managed several employees (full- and part-time), and navigated a small business, with all that entails.

September 2000-April 2005

Omnipod

November 1999-September 2000

Tempest Software, Inc.

Director of Operations and IT (as of 1/15/2001)

- Responsible for the day-to-day 24/7 operations of the Omnipod managed software solution for businesses.
- Managed system administrators, DBAs, web developers, QA engineers and testers.
- Managed 100+ Sun SPARC servers (running Solaris 8), Linux servers (running various distributions: RedHat ES, Gentoo, Debian), Cisco catalyst switches and routers, disk storage units and backup tape libraries.
- Rearchitected the development and production environments given a radical new business direction (corporate vs. consumer) and migrated the data center from a Newark co-location site to the New York site with under 36 hours of downtime, including moving time and setup time.
- Implemented NIS+ and PAM-LDAP+Kerberos 5 for authentication for the various servers.
- Devised and maintained the data center backup and DR plan.
- Implemented a VPN solution and a layered network topology and security model for remote offices.
- Migrated data from an EMC Symmetrix SAN unit to various smaller Sun units at considerable savings to the company.
- Optimized disk usage for typical Omnipod usage.

- Managed all the corporate IT, from desktop support, to IP telephony implementation and deployment and corporate IP connectivity, and implementation of a Windows 2000 Active Directory domain from an existing NT domain system.
- Maintained and upgraded all corporate network systems, including mail, DNS, network routing and load balancing systems and firewalls.
- Wrote and managed release plans for the various software components, and formulated the release management and rollout policies.

Senior Engineer

- Architected and built out a state-of-the-art, 24/7 data center and network for the Omnipod project.
- Configured and specified out Cisco and Sun equipment, and interfaces with EMC storage hardware.
- Was the liaison between the development team and the operations staff.
- Developed training and “runbooks” for the system administrators.
- Designed, modeled (in UML), and built the custom file-management and digital-rights management system used (in most part to this day) by the Omnipod server software in C++ and perl.
- Designed and implemented the media streaming functions for the Omnipod product.
- Negotiated with streaming media providers and developed APIs with them.
- Assisted the server-side team lead in managing a team of 7+ developers and system administrators, including writing detailed specification documents, “runbooks”, job requirements and conducting interviews and training of new members.

(The Omnipod development team at Tempest was transferred, *en masse*, to Omnipod.com in September 2000.)

September 1999-December 1999 Columbia University Department of
Computer Science

Adjunct Assistant Professor

- Invited to teach the second-term undergraduate course in numerical methods for computing (“Scientific Computation II”)—essentially numerical methods for linear algebra.

February 1997-September 1999 Polaris Asset Management, New York
Quantitative Strategist and Systems Designer

- Designed and wrote *ab initio* the trading, risk and position management system (front- and back-office) for the firm's fund in Microsoft Visual Basic and SQL server and MS Access.
- Developed systems and mathematical models to price over-the-counter options, interest-rate swaps, and other fixed-income derivative instruments.
- Interfaced models with the fund's trading system.

December 1998-September 1999 Allied Capital Asset Management, Rye, NY
Acting Director of IT

- Planned out the short- and long-term technology plans for ACAM.
- Solicited bids and oversaw the installation of ACAM's internet connectivity.
- Planned a complete upgrade of the firm's computer systems.

- Developed strategies for the company's first foray into the world-wide-web.
- Y2k project leader.
(ACAM was Polaris's sister corporation; both were subsidiaries of Itochu International. I was attached here on a part-time basis.)

September 1996-May 1997 Fordham University/College at Lincoln Center
Computer and Information Systems department.

Adjunct Instructor

- Taught the graduate course CSLU 5200 (automata theory) and the undergraduate course CSLU 1100 (“Computational structures”---introduction to CS for majors.)

Summers 1993, 1995, 1996 City College of New York Department of Physics

Adjunct Lecturer

- Taught the undergraduate courses Astronomy 100 (intro. to astronomy) and physics 204 (physics for pre-medical students)

September 1989-January 1993 Academic Information Systems/Columbia University

Systems Programmer

- Developed software in C and REXX to maintain the university's BITNET and Internet connections on the main academic Unix and VM/CMS systems automatically.
- Answered “postmaster” mail questions from users.
- Managed the LISTSERV and RSCS systems.

Education

Ph.D., theoretical physics, 1997, City University of New York, New York. Thesis topic:
Double Multiphoton Ionization of Helium.

A.B., physics and mathematics, 1990, Columbia University, New York.

Publications

Poster at 1995 DAMOP: *Correlated Double-Electron Multiphoton Ionization of Heliumlike Atoms in a Strong Laser Field*

Altzman, J.B. and M.H. Mittleman, *J. Phys B.* 30, 3797 (1997)

Altzman, J.B. and M.H. Mittleman, *Can. J. Phys.* 76 **6** 1998.

Other

Fluent in English and Spanish, working knowledge of Russian and Hebrew.
Interests include amateur radio, martial arts and swimming.

Professional Memberships

American Physical Society, Association for Computing Machinery, IEEE & Computer Society, Usenix.