Mitchell B. Germansky

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Shorter resume: **http://germansky.org/mitch/mbg-resume.pdf**

Summary

Securing a lead role driving software solutions to market. Excellent choice for product/project management or directing R&D projects. Extensive, results driven computing experience with a unique blend of business, management, technical, and academic skills in startups, Fortune 500, and SMB settings. Consulting practice for twenty-eight years. Diverse technical experience across the life cycle with product/project design, hardcore development, training, teaching, support, QA, operations, and administration.

Education

M.S. Computer Science, New Jersey Institute of Technology, 1985 (3.9/4.0 GPA).
B.S. Mathematics, Drew University, magna cum laude, 1978 (3.6/4.0 overall, 4.0/4.0 math).

Operating Systems

SunOS, Solaris, Linux, UNIX SVR3&4, Apollo Aegis, Domain/IX; MS-DOS, MS-Win3x, MS-Win9x, WinXP; MPE-III; RSX11.

Software

C, shell, perl, python, HTML, Java, JSP, JDBC, JavaScript, XML, Tomcat, SVG, Batik; httpd servers: Apache, Netscape Enterprise, NCSA; Dreamweaver, Fireworks, PhotoShop, MS-FrontPage, MS-Office, Fusion NetObjects, Adobe Acrobat; Assemblers, Basic, Fortran; MySQL, Oracle, Informix, FoxPro; many PC applications; FrameMaker; many Sun-based tools, Sun Online: DiskSuite, OpenV*High Availability, NIS+; Citrix MetaFrame, SCO Tarantella.

Hardware

Sun workstations/servers; Wintel PCs, Tablet PCs; Apollo Workstations; AT&T 3B Computers (3B2, 3B15, 3B20); AT&T SmartHubs; DEC VAX 11/780, PDP-11/70; NCR Tower; HP 3000; IBM 370 and 1130; Z80, 8085, 6502, 68000; Apple Macintosh; AT&T 730, 630, and 5620; several logic and protocol analyzers; Fujitsu and B+H scanners, KoFax, Calera OCR, Hitachi optical devices.

Technical

9/17 to Present   **Computer Solutions Group, LLC**   **Consultant**
Consulting with AT&T Chief Security Office founded and lead the implementation of a core threat intelligence engine based on the MISP open-source project for analytics and downstream network protection and detection. Continuous and direct collaboration with the MISP Team due to the scope and scale of this project (references upon request).

4/08 to 9/17   **Computer Solutions Group, LLC**   **Consultant**
Consulting engagement with AT&T Chief Security Office designing, developing security systems, tools to monitor, analyze, and defend Internet threats. Support SnapKast (http://snapkast.com) sales.

4/02 to 7/04   **Rutgers University**   **Elearning Research**
As a member of the Laboratory for Computer Science Research at Rutgers, working on an eLearning grant from the state of NJ. Designed/developed simple, general purpose, and extensible teaching & learning tools in trial uses at Rutgers, Drew, UMDNJ, Seton Hall, and Gov. Livingston High School to record live and distance learning lectures with slides, audio, and pen annotations with immediate publishing for fully synchronized playback and question/answer student/teacher collaboration.Technologies include Java, JSP, Apache, Tomcat, XML, SVG, Batik, OpenOffiice, SVGMaker, and JDBC with Oracle. Technologies include Java, JSP, Apache, Tomcat, XML, SVG, Batik, OpenOffiice, and JDBC with Oracle. Additionally lead the design and development of a web-based homework submission/management system integrated with automatic graders and cheating detection

with over 20,000 homeworks submitted by over 2000 Rutgers Computer Science students in the Fall 2003 semester.

11/99 to 9/01   AT&T Labs   Consultant

Performed research/analysis of IP and AS number, POC, and BGP routing data from the three Internet Registries: ARIN, RIPE NCC, and APNIC. Developed tools to acquire weekly snapshots, import data in MySQL normalized schema, query server written in Python. Integrated the server into an IP network management distributed server infrastructure hosted on a Linux cluster. Investigated rate of change and other research metrics. Served as AT&T liaison to these registry organizations; arranged a special research feed of ARIN's data. Attended the ARIN annual meeting.

Member of small team researching and proposing web based services for the 2000 work program of the $2B global venture between AT&T and British Telecom known as Concert. Focused on application hosting and Application Service Provider (ASP) solutions, e.g. Citrix MetaFrame and SCO Tarantella. Performed technical evaluations and developed hosting platform prototypes.

1/95 to 1/00   Lucent Technologies Bell Laboratories   Consultant

Intranet developer/webmaster for Lucent's Wireless development organizations. Managed web server hosting around 500 users with over 1 million hits per month and access from 10,000 client computers. Develop web based applications with HTML, JavaScript, CGI, perl, C, multipart MIME, cookies, image maps, etc., Home page design, support, and training. Administration of the Apache webserver running on Solaris and the Netscape Collabra netnews server. Monitor and correct web server security and performance issues. Deploy public domain and open source code (e.g. C, perl) applications as needed. Serve as the in-house consultant to hundreds of web users and developers. Interaction with CIO and computer/network center technical staff. Some sites/tools developed include:

- web interface to the UNIX Sablime change management system
- web based document management system: access (searching, viewing, printing) to a large library of over 1000 on-line technical documents including a lot of CGI work, authentication and security, web interfaces to existing UNIX applications; support over 3200 registered users in the US and abroad.
- general purpose subscription based event notification system customizable for specific applications such as document updates in the online repository, netnews postings.
- WebID registration and administration system: over 3400 registrants and growing, self managed user tools, admin tools, security audits.
- trouble ticket feedback
- training roadmap
- hardware models type and owner tracking web tool
- general wireless software developer's home page
- quality metrics
- network printers monitor
- access to an array of Unix legacy tools on the web
- development of a large assortment of on-line tutorials for users developing web pages and applications
- ftp downloadables
- many administrative web based and cron activated tools

Prior to the Intranet work, as part of a small team, provided an out-of-lab testing environment on a Sun network for cell site developers. This includes support of the ported proprietary cell operating system, a message interface driven simulation environment, and user filters/scripts. Solely responsible for the design, implementation, and support of this common environment in Whippany, NJ and Naperville, IL.

3/98 to 5/98   The Meridian Group   Consultant

Designed, developed, and deployed this company's web site.

1/96 to 5/96   **Legal Expert**

Served as a software expert in a lawsuit analyzing a disputed computer system and its conformance to specification and many other aspects. Worked with company executives and their legal team. Produced detailed expert report that assisted in the settlement.

2/92 to 12/94   **AT&T Communications**   **Consultant**

Lead member of the audio teleconferencing team with initial work on existing operations support systems deployed on 3B2s. Major responsibility in the definition of the next generation of teleconferencing products based on an multi-site architecture of a network of highly available Suns and PCs. Phase one of this new system was deployed to 5 sites with 10 Sun SS1000s, 400 PCs, network gear, and peripherals. Performed system engineering, development, system administration, testing, and management functions:

- Principal engineer responsible for the new architecture with respect to the design, selection, implementation of hardware, software, and networking components: Sun SPARCcenter 2000, SPARCserver 1000, redundant Ethernet LANs, NCR SmartHubs, Cisco Brouters, T1 Frame Relay WAN, PC desktop units, OpenV*High Availability for Sun along with Online: Disk Suite, SPARCstation 10/30s for development, an array of software development and test tools. Defined full internetwork namespace.
- Work closely with quality assurance and production support teams in testing, deployment, support.
- Coordinated integration testing for one release of the 3B2-based system.
- Ported most of the 3B2 application to the Sun platform.
- Conducted the vendor selection process for the development and test platform saving AT&T $80,000 initially with an additional $150,000 at system deployment in 12 months.
- Analyzed and recommended new development and test tools for the organization.
- Served in the technical and management role budgeting, justifying, purchasing, and deploying the new development and test system platform (initially $1.2M; approx. $6M at deployment).
- Mentored organization on Sun; assisted development network deployment and system administration.
- Planned and organized the training sessions for the staff.

5/89 to 2/92   **AT&T Bell Laboratories**   **Consultant**

Principal developer in the AT&T Accumaster Network Service Interface product. Worked on many aspects of this network management system which manages diverse voice and data networks over T1.5 lines with Performance Management (PM), Facility Management (FM), and Configuration Management (CM). The system was initially based on a 3B2 server and Sun clients and was then migrated completely to Sun.

- Began the prototype of a new generation gateway process in C++.
- Ported two 3B2 X.25 gateway processes (18K C lines) to a Sun SPARC 490 platform.
- Assisted in defining the requirements and tested the addition of an X.25 subnetwork (PVC and SVC) facility to the existing interprocess communication platform (Rapid/CCP).
- Principal diagnostician dealing with the installation of the first Sun-based project machine: kernel configuration/tuning, boot scripts, X.25 hardware configuration (MCP), and platform troubleshooting.
- Served as the X.25 expert for an array of projects within the lab including API (3B2 and Sun), design issues, performance, installation, and the Accunet packet network interface.
- Developed Facility Administration Server on a 3B2 which manages update and query transactions.
- Designed/developed (12K C lines) the PM X.25 gateway which collects PM hourly poll, on-demand, and facility data.
- Served as mentor to several developers; coordinator for the PM subsystem. Project wide resource improving time-to-market, increasing process performance, and improving software quality.

5/85 to 9/85   **Conference Call Service**   **Consultant**

Initiated the development of a UNIX based value-added teleconferencing service including product planning with the Board of Directors, system development, establishing the engineering lab, vendor contact, and the selection and management of the software team.

4/85 to 2/87   **AT&T Bell Laboratories**   **Consultant**

Developed and supported the 3B5, 3B15, 3B20, and Vax UNIX V X.25 Network Interface product. In addition, developed the component and system test scenarios in C and shell to verify the UNIX V X.25 protocol for the Vax 11/780, 3B20S, and 3B5/15 systems.

10/84 to 2/85   **Ragen Information Systems**   **Consultant**

Designed and implemented a file transfer system (FTS) to transport data collected in IBM PCs to a DBMS in a UNIX host. This assignment included the UNIX and MS-DOS development: an FTS partner data base with automatic transfer initiation and the source/destination node software based on the Xmodem protocol.

7/81 to 1/83   **AT&T Long Lines**   **Supervisor**

Key developer of communications platform and interfaces for UNIX operations support systems and an multiprocessor X.25 PAD:

- Designed and implemented (10K C lines) a distributed multi-machine UNIX based LAN architecture: intra and inter process machine communications software, a queuing system, a shared memory manager, critical resource management, and a centralized error system. Also worked on the design of an automated system initializer, monitor, and recovery system for this architecture. This platform served as the foundation for future systems, initially supporting a 150 staff year project.
- Designed a UNIX network interface transporting data concurrently through an X.25 network. Defined the protocol standards (session, application, file transfer) for the AT&T Network Services X.25 inter-system networked interface (has now been in use for over 10 years).
- Responsible for the design, implementation, and test of an AT&T X.25 packet switch and packet assembler/disassembler (PAD). This included the development of the X.25 layers 1, 2, and 3 and the operating system supporting parallel processing Z80s all in assembler. Over 3500 systems deployed and still in use today.
- For a large UNIX development project was responsible for defining the project software standards, libraries, tools, directory structures, and UNIX system technical support and training.

5/78 to 6/81   **Vydec, Exxon Office Systems**   **Software Engineer**

Broad development experience in microprocessor office automation systems: operating systems, drivers, and communications all in assembler:

- Designed/coded SDLC cluster network process. Lead the development ofTTY and 2741 emulators.
- Developed system firmware for an optical character reader and drivers for Memorex 651 disk drive.
- Implemented bootstrap loaders and a document oriented file system in a multitasking system.

Community Service

12/96 to 12/09   **Local Public Library**   **Trustee**

Member of the Board of Trustees involved in all aspects of the operation and management of the library including interaction with the Township Committee and budget issues. Served as Board President and technology committee chair. Responsible for introducing the first public Internet stations at the library. See http://bhplnj.org/

9/00 to 9/01   **Board of Education**   **Member**

Member of the Board of Education for a religious school.

9/00 to 05/01	**Community Chess Club**	**Leader**

Organized and lead the local recreation commission's chess club for K-8 students.

11/96 to 6/01	**Middle School**	**Volunteer Teacher**

Working with a team of 15 middle school students. This web team learned about the process of designing and supporting an active web site for the local school district.

9/95 to 6/01	**Local School District**	**Volunteer**

Work with the Superintendent of Schools, District Computer Coordinator, faculty, staff, and the School Foundation to incorporate technology into the schools and the curriculum. Offer training and advice on design and planning aspects.

11/92 to 11/95	**Community Pool**	**Trustee**

Participated as a member of the Board of Trustees in directing all facets of the operation and management of this community pool with a membership of 3500 people. Computerized the membership operations including the database, reports, tracking, invoicing, public relations, and mailings.

4/95 to 10/95	**Technology Target Committee**	**Chairperson**

Chaired a community based committee to define the five year technology plan for the Local School District. The eleven committee members included community members, faculty, a school Principal, the Superintendent of Schools, and the District Computer Coordinator. Presented our report and findings to a public community forum and then to the School Board.

Travel

My family and I enjoy traveling in the US and abroad. I've been in approximately 30 countries. These journeys allow us to meet other people and learn from their cultures, living experiences, and diverse points of view. This world perspective has served me well in business and teaching.

Music

1971-Present	**Musician, Music Instructor**

Drummer, percussionist performing with a variety of bands in the NY metro area including jazz, rock, classical, and Scottish. I started teaching drums at the age of 14 with students of all ages. I've been an active performing musician since the 1970s. This avocation has allowed me to develop innovative teaching skills from a very early age under the mentorship of my father, a well know teacher/performer.