

Resume

Jay Frederick Ransom

3600 Harbor Blvd., #431
Oxnard, CA 93035

(805) 815-1750
E-mail: fred.ransom@gmail.com

Positions

Senior Software Engineering including research and design, Teacher/mentor.

Expertise

Object-oriented technologies, including analysis and design, distributed components and processing, TCP/IP, multi-threading; GUI's, VB, C++, VC++, MFC and .NET (and mono). Real-time, transaction and embedded systems design and implementation

Education

BA, Psychology, Mathematics, California State University at Long Beach, 1963.
Graduated Magna Cum Laude. Anthropology minor.

Language requirements shy of an MA in Mathematics, California State University at Long Beach, 1965 Anthropology minor.

Post-graduate course in medical anthropology through Pepperdine University.

Credential

California Community College Teaching Credential in Computers and Related subjects.

Summary

I have over 30 years experience, including eight years collegiate teaching, in computer science, mathematics, scientific and business systems software engineering.

Experience

Nov. 2001 to present: **Contract Software Engineer**, *Sierracin/Harrison, Inc.*, Burbank, CA. Designed and developed software and hardware configurations for embedded real-time software for manufacturing process equipment. This software system will be used both within the United States and exported to foreign countries.

Feb. 2000 to Oct. 2001: **Contract Software Engineer**, *Tingley Systems, Inc.*, Dade City, Florida. Developed secure data monitoring, tracking and recovery system in an enterprise network environment. System also had the ability to block certain security problems, and report both data tracking and security issues. It also pointed out security breaches in a beta site network.

Nov. 1999 and Jan. 2000: **Contract Software Engineer**, *Sierracin/Harrison, Inc.*, Burbank, CA. Updated and documented real-time C software on Windows NT for new model swaging machines. Updated the software for Windows 98.

Jan. 1997 to Mar. 1999: **Senior Software Engineer and Technical Lead** at *Balfrey Precision, Inc.*, Ventura, California. Created embedded and distributed process control systems and operator interfaces and the required Internet aware distributed components. Created the world's best messaging system, Da Aina, for intra-process, inter-process and Internet distributed processing in a real-time environment. We are currently marketing Da Aina. Also designed and implemented the first real-time process control system with VB and Pick System style dynamic arrays. C++, VC++ VB, MS Windows, Unix and TCP/IP. Mentored a new software engineer.

Mar. 1998 to Sept. 1998: **Senior Software Engineer** at *Intertec International, Inc.*, Ventura, California. Part-time concurrent with Balfrey Precision. Implemented Internet data base access in a Windows-Unix environment with Visual Basic and JBase (Pick Systems style data base). Created sparsely populated dynamic arrays in VB using recursion.

Oct. 1995 to Mar. 1996: **Senior programmer/analyst** at *Tingley Systems, Inc.*, in San Antonio, Florida. Created communications software, EDI processing, and transaction processing software. VB, Universe BASIC, System Builder (Pick Systems style data base), MS Windows and Unix.

Aug.-Oct. 1995: **Contracted to Pulte Homes** in Tampa, FL, through *General Employment* in Tampa, FL. Created building contractor employee skills database system including complex selective reports and database synchronization. Telecommuted. VB, SQL, MS Windows.

1987-1995 Freelanced as *Sun, Sand and Sea Software*. **Independent consulting**, programming, and computer services through myriad short projects. Anthropological research on the social effects of logistics (shows I can research a subject.) Created a sophisticated calendaring program for project operations such as date projections.

1989-Feb. 1992: **Part-time instructor** at *Watterson College* in Sherman Oaks, California. I conducted Saturday computer workshops in the paralegal department

covering WestLaw, Word Perfect, legal research and writing, dBASE III Plus, Lotus, and WordStar.

1987: **Tutor, Graduate Studies in Mathematics**, *Sierra University* (University Without Walls), Thousand Oaks, CA. Contract for weekly consultations with individual students as they pursued post-graduate degrees in mathematics.

Feb.-Aug. 1987: **Senior Systems Programmer/Analyst (Contract)**, *PAC Foundries*, 705 Industrial Avenue, Port Hueneme, CA. First I wrote an Algol to COBOL translator, then used that to make a program generator. Also resurrected both mainframes after lightning struck through the roof during an electrical storm. At this point the program generator paid for itself by reducing recovery time from days to a single morning, even though it was not yet complete.

1984-1986: **Senior Systems Programmer/Analyst**, *Systems Development Corporation* (now Unisys), Camarillo, CA. Performed analyses and developed implementation strategies for scientific, engineering, and inter-computer systems for RADAR simulations and onboard fire-control systems for DOD. These programs included both real time and post operations analyses. C, Pascal, Unix, CP/M, Macintosh.

1981-1984: **Computer Science Teacher**, *Sawyer College*, Ventura, CA. Set up the department structure and curriculum. Developed course outlines, lesson guides, student handouts and exams. Taught advanced courses in Pascal and FORTRAN. Designed and created a data base driven airline ticketing simulation, student demand scheduling program, and several other educational and administrative programs.

1983: **Senior Systems Programmer/Analyst (Consultant)** to *PAC Foundries*, Port Hueneme, CA. Developed project plan, generated functional requirements, design specifications, and acceptance criteria for purchase order, inventory management control and project delivery projections. It contained built-in adaptability and thus became the first COBOL program to run 9.5 years maintenance free.

1978-1981: **Senior Systems Programmer/Analyst**, *Grumman Data Systems*, Point Mugu, CA. Designed, developed, and installed a portion of the TELIN (TElemetry INput) compiler. This compiler reads descriptions of instrumentation and mission requirements, then programs real-time processing equipment to meet those requirements. Taught the use of TELIN in a formal class.

Designed the Grumman Aerospace Test and Evaluation Reporter (GATER). This system used knowledge-driven artificial intelligence to receive raw data and a list of user requirements, select the required data, perform mathematical analyses, and generate a finished written report, complete with graphics.

1976-1978: **Tutor**, *Oxnard College*, CA. Taught computer sciences, mathematics, psychology, and anthropology. Supervised photography.

1967-1976: **Mathematician/Computer Scientist** GS-12 (Started as GS-5 and worked up), *Pacific Missile Test Center*, Point Mugu. Designed, implemented, and documented automatic programming systems and the accompanying automatic debugging systems for various advanced projects of a theoretical as well as a developmental and test nature.

Wrote the world's first true word processor. It had macro capabilities and ran on a mainframe.

1963-1965: **Instructor**, *California State University at Long Beach*, CA. Taught mathematics and logic.

Additional Experience

1950-1953: Chess Columnist for the Los Gatos Daily Times. I was in junior high school and my column appeared in the daily paper twice weekly. I wrote problems, history, and stories. I called the column, "Chess for Fun."

1972-1974: Lay Minister for the Ventura Unitarian Church. During this time we had no professional minister. Six members of our congregation shared the duties of ministering. Also directed the Friday Evening Sharings.

Jan. 1990-Oct. 1994: Eligibility Officer II, Public Social Services, County of Ventura. Job emphasizes business processes and client services, medical claims and social work.

Personal

Born Aberdeen, WA, hence US citizen, sandy hair, hazel eyes (20-20 vision with glasses), wiry build, excellent health, no physical limitations. Grown children. Military clearance SECRET (not current).

Hobbies

Writing, Photography, Sailing, Chess & Go, Travel, weight lifting.

I have had success selling photographs through galleries in Woodland Hills, CA, and in Oxnard and Ventura, CA. I displayed and sold photographic works in a photo show at Ventura Harbor Village, CA. I've had limited international sales and international recognition for fine art photography.

Publications

Intermediate Programming, Grumman Data Systems, Calabasas, CA, 1981; Rev., Sawyer College, Ventura, CA.

"Square Root for COBOL," TI-MIX, March 1983.

"Decimal Fraction to Hexadecimal Conversion in BASIC," Ahoy, April 1985.

"Chess for Fun," a twice-weekly column in the Los Gatos Daily Times, ran for three years.

"Useful C Macros," Software Development, July 1993.

"Pairing C and C++," letter in Dr. Dobb's Journal, April 1994, included an efficient round robin algorithm.

Numerous photographs that I have sold over the years.

References

Available upon request.