

JEFFERY A. CAVALLARO

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SKILLS

- 35+ years of computer software and hardware experience in the commercial, defense/aerospace, and academic sectors.
- Experience in a range of roles, including: working independently, as team member, leading teams of various sizes, and small business owner.
- Design, development, testing, deployment, maintenance and (on-call) support of internal and customer-facing systems.
- Familiar with the concerns of high-availability systems.
- Primary skills include C/C++, Java, and Perl on Linux, with a heavy emphasis on system services and middleware. Some web and database programming experience. Past experience working with embedded systems and low level development environments.

EXPERIENCE

08/15 to Present

SAN JOSE STATE UNIVERSITY ~ San Jose, California

Mathematics Instructor (TA/Grad) and WeBWork Programmer —

Various teaching assignments while a graduate student at SJSU. Lead programmer on a project to design and develop SJSU's next generation of developmental math classes on a WeBWork-based platform. WeBWork is a Perl-based problem authoring tool.

11/06 to 08/15

GOOGLE, Inc. ~ Mountain View, California

Software Engineer —

Initially hired by Postini, Inc. (San Carlos, California), which was acquired by Google in September 2007. Member of a team that maintains and extends a line of corporate-strength, high-compliance email management and security products serving millions of users worldwide. Primary tools include C++, Perl, and Oracle in a Linux operating environment.

05/06 to 11/06

NORTHROP GRUMMAN MISSION SYSTEMS ~ Dominguez Hills, California

Systems Engineer —

Continued work on the JTRS Cluster 1 (GMR) project. Tasks included system interconnect analysis; antenna thermal, pressure, and mechanical analysis; and primary responsibility for the recurring hardware proposal effort.

Clearance: Interim Secret

06/01 to 05/06

Independent Contractor ~ Fremont, California

Northrop Grumman Mission Systems (Dominguez Hills, CA) —

Communications systems engineer for the JTRS Cluster 1 project. Duties included antenna, waveform, and link budget analysis for a major effort to replace all military communications with the next generation of waveforms and software radios.

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Amir Technology Labs (Sunnyvale, CA) —

Analysis of and development for an existing Linux thin-client product. Tasks included C/C++ programming, CGI programming, GTK programming, and system configuration management in an embedded Linux environment. Specific subject areas included ACPI and wireless internet connectivity.

Watchmark (Pleasanton, CA) —

Continuing support of the Nortel wireless switch data acquisition software for Prospect, WatchMark's performance management tool. Tasks included UNIX/C programming.

QCR (Torrance, CA) —

Subcontractor to SEAKR (Denver, CO), WatchMark (Bellevue, WA), Verizon Wireless (Walnut Creek, CA), and TRW (now Northrup Grumman Mission Systems, Redondo Beach, CA). Tasks included UNIX real-time event management middleware design and implementation, portable software library design and management, GNU software management, NETBSD device drivers, embedded systems for communications and power control applications, and maintenance work on Verizon's cellular network element performance data acquisition system.

05/00 to 8/04

ABC RADIO (KGO/KSFO/KMKY) ~ San Francisco, California

Account Executive, Production Director, Live Show Producer, Board Operator, Local Personality, Promotions Team —

Took a small break from the hi-tech world to work in local radio sales, programming, and promotions.

11/98 to 05/00

AIRTOUCH CELLULAR, Inc ~ Walnut Creek, California

Senior Software Engineer —

Continued work as a technical lead on AirTouch's cellular network performance monitoring system.

1/95 to 11/98

CAVCOM, Inc ~ Lawndale, California

Chief Consultant/CEO —

Owner of a computer hardware and software consulting services and sales firm. Projects included the design and development of UNIX/C-based cellular network monitoring systems for telecommunications clients, and several PC-based office automation systems. Sales included SUN and PC hardware and software.

AirTouch Cellular (client) —

Technical project manager and lead engineer for the analysis, design, development, and configuration management of the next generation of AirTouch's cellular network performance monitoring system. This UNIX/C-based system provided reliable collection, distribution, historical database population, and reporting of operational data from target cellular network elements. Duties included travel to and serving as a technical liaison for both domestic and foreign markets. Other duties included maintenance of the various public domain (e.g. GNU) tools used by the entire AirTouch campus.

1/94 to 1/95

OSI, Inc ~ Lawndale, California

Chief Consultant/Secretary —

Part owner of a computer hardware and software consulting services and sales firm. Projects included design and development of UNIX/C-based cellular network monitoring systems for telecommunications clients, design of the next generation of ISO/ITU-based System Management C/C++ toolkit products for a major OSI networking software provider, and several PC-based office automation systems. Sales included SUN and PC hardware and software, and Informix database products.

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11/91 to 1/94

THE FLOOD GROUP ~ Torrance, California

Sr. Software Engineer —

Performed software design, programming, and integration on several software projects. Assignments included portions of a cellular network monitoring system, portions of an ISO/ITU-based System Management toolkit, the DNP interface for a SCADA master station, portions of an airport noise monitoring system, device interfaces for a plant noise monitoring system, and portions of a tactical anti-submarine warfare system. All tasks involved UNIX/C programming, primarily within a special system/event-driven paradigm developed by The Flood Group.

Clearance: DOD Secret

12/89 to 11/91

TRW, Inc ~ Redondo Beach, California

Member of Technical Staff —

Assigned to various C³I defense projects. Duties included design, programming, and formal testing of components in large software systems. Skill areas included security-related software, VMS/Ada, human-machine interfaces using Motif, hardware device control, and network communications software in a UNIX/C environment.

Clearance: DOD Secret

5/87 to 12/89

CALIFORNIA INSTITUTE of TECHNOLOGY ~ Pasadena, California

System Manager —

Staff member of the Electrical Engineering Department. Duties included computer and research equipment pricing and procurement, system installation, system management, and system and application programming.

8/85 to 10/86

USC-INFORMATION SCIENCES INSTITUTE (ISI) ~ Marina del Rey, California

Computer Analyst —

Provided *UNIX 4.2bsd* and *VMS/VAXcluster* top level support to an extensive and varied user community. Major projects included development of a computer mail system relay to provide continuity between various commercial mail networks and the DARPA Internet. Information Sciences Institute is a DARPA funded research house affiliated with the University of Southern California.

6/82 to 8/85

TRW, Inc ~ Redondo Beach, California

Sr. Program Analyst —

Assigned to a very large C³I project. Performed system programming, application programming for advanced peripherals, system management, and configuration management on a *VAX-11* running *UNIX 4.2bsd*.

Program Analyst —

Staff member for a computer center that underwent growth from a small departmental resource to a division-wide support facility. Performed system programming, application programming, system management, vendor software package end-use, and user support on several types of processors and graphics equipment. Primary platform was a *VAX-11* running *VMS*.

Clearance: DOD Secret

1/81 to 6/82

CALIFORNIA INSTITUTE of TECHNOLOGY ~ Pasadena, California

Engineering Assistant —

Assistant to graduate student supervisors for research and departmental support projects in the CALTECH graduate computer science lab. Performed digital project design and construction using several automated, in-house developed tools. Duties also included the purchasing of research equipment and materials.

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INTERNATIONAL EXPERIENCE

1996-7 **SHINSEGI TELECOMMUNICATIONS, Inc ~ Seoul, South Korea**
Several extended trips to STL, an equity partner of AirTouch Cellular, Inc., for on-site analysis, development, deployment, and support of a cellular network performance monitoring system.

EDUCATION

2014 to Present **SAN JOSE STATE UNIVERSITY ~ San Jose, California**
MA, Mathematics (in progress)

2010 to 2014 **SAN JOSE STATE UNIVERSITY ~ San Jose, California**
BA, Mathematics
Summa Cum Laude

2002 to 2010 **OHLONE COLLEGE ~ Fremont, California**
AS, Computer Science
AS, Physics
AS, Mathematics
Valedictorian

1987-88, 1980-81 **CALIFORNIA INSTITUTE of TECHNOLOGY ~ Pasadena, California**
Applied Physics, Engineering & Applied Science

1976 to 1980 **DON BOSCO TECHNICAL INSTITUTE ~ Rosemead, California**
High School diploma plus one year junior college with four years of intensive study in Electronics Technology.