

**Scott Emmett Morison**  
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**Employment History**

11/11-Present **Educational Software Engineer**

Center for Applied Second Language Studies (CASLS), University of Oregon

Develop mobile applications as needed for CASLS projects. Published several Android Apps on Google Play store. Work with directors and researchers to develop educational software solutions. Oversee and engage in all levels of the online presence of the department from the upkeep of physical server hardware, virtual machine setup, Linux OS to the assorted web server software installations, shell scripting, threat mitigation and anything else predictable and otherwise that concern the reliable usability, upkeep and reliability of web applications. Design, build and deliver all aspects of LAMP solutions from the ground up.

10/08-11/11 **Educational Software Programmer**

Center for Applied Second Language Studies (CASLS), University of Oregon

Create, maintain and improve web-based applications and databases to support language acquisition assessment research activities. Applications supported were written primarily in PHP using Symfony 1.4 framework and MySQL database backend, though a number of other applications were based in Java and Python/Django. Participate in all levels of server setup Linux (Redhat and Ubuntu), system administration, automated backup scripts and VMWare vSphere hypervisor administration.

2/06-10/08 **Senior Applications Specialist, Export Compliance**

Symantec, Corp., Springfield, Oregon

Administer, modify, enhance and maintain TradeSphere™ export compliance application and associated Web interfaces, (Oracle) databases and Java code based expansions. Create SQL and PL/SQL scripts to report and modify data, often including ad hoc emergency data repair scripts to correct bad data in production environment. Design and test new Java, JDBC, SQL, HTML, XML and Javascript code. Follow code through entire Development-Production cycles. Write migration, and test documentation for code releases. Set up and maintain code base in Perforce and PVCS version control systems. Create and conduct technical training sessions for new staff.

8/04-2/06. **Owner/Operator: Electronics and Computer Repair Technician and Consultant**

MGZIMA Technologies, Eugene, Oregon

(Same rolls as 2/93-1/95, below)

10/94-7/04 **Senior Systems Analyst, Business Applications**

Symantec, Corp., Springfield, Oregon

Design, develop, document and maintain a variety of customer to (Oracle) database two tier and three tier interface applications and components based on evolving business requirements. Model and implement relational database structures with attention toward high volume efficiency. Create and maintain web interfaces to various databases on Solaris (Unix) servers using HTML, Javascript and CSS driven by CGI's in Perl, Java (J2EE, JSPs and Servlets) and C++. Create, install and maintain monitoring scripts to report operation statistics and error conditions of high revenue customer facing web interfaces and applications. Install and configure Oracle 8.1 database, iPlanet Web server and Application server on Windows 2000 based servers. Create test harnesses for faceless middleware API's in Java J2EE Beans. Install and configure Apache Web server and Jakarta/Tomcat servlet engine. Design and implement a web storefront with shopping cart and direct credit card processing capability, and concurrent database record updating, with pages available in 12 individual worldwide languages accounting for more than 250,000 web connections monthly. This system is responsible for netting the company several million dollars annually. As such, I have the responsibility of maintaining a 99.95% uptime service level,

requiring 24/7 on call accessibility. Modify and create new structures and functions for the ERP system (database), as needed.

2/93-1/95      **Owner/Operator: Electronics and Computer Repair Technician and Consultant**  
MGZIMA Technologies, Eugene, Oregon

Diagnose and repair a wide variety of electronic equipment, both analog and digital. Provide consultation on computer software and hardware setup, troubleshooting and operation. Provide training and instruction for software usage. Design and set up database applications for small office requirements using primarily Filemaker Pro.

10/90-2/93      **Senior Technician / Technical Services Manager / Network Manager**  
TOTAL SYSTEMS Inc., Eugene Oregon

Install, troubleshoot and repair high speed 68030 and 68040 based accelerator cards for Macintosh workstations. Provide on-line technical support. Train product support staff. Author installation and tech manuals. Resolve third-party product compatibility issues. Design test jigs and peripheral cabling systems. Install all network wiring at new company site. Provide all network management. Design and assemble electronic devices to fill needs of R&D and production departments.

11/89-8/90      **Computer Repair Technician** (on contract)  
Lane County School District #4J; Eugene, Oregon.

Maintain and repair all Apple and Commodore computer equipment, including board-level diagnosis. Coordinate all Apple Service Center functions, and record keeping using Filemaker Pro database. Advise on all aspects of hardware, software and network use and installation throughout district.

7/89-3/90      **Electronics Design Technician** (on contract)  
Glen Canyon Software; Eugene, Oregon.

Research, design and develop computer interface hardware for use with Macintosh computers involving telephone system interface, high speed RS232 serial communication and A/D sampling circuits. Design, fabricate and assemble photo-mastered PCB's for use as product prototypes. Assist in software development.

1/88 - 6/89      **Electronics Technician,**  
Jones Academic Computer Center; University of Redlands, Redlands, California

Maintain and repair all electronic and mechanical equipment. Perform all Apple Computer product repairs, and maintain certification status for authorized Apple Computer repair site. Design and utilize database to maintain current inventory of replacement and standard components and to coordinate tracking for orders of new equipment and parts. Coordinate installation of new equipment. Coordinate installation of UNIX operating system on a VAX 11/750. Design and supervise installation of VAX and Mac workstation lab. Install and maintain network PBX including a campus wide T1 protocol data multiplexers for office terminal access. Installed and maintained multiple workstation networks and servers for MS-DOS and Macintosh, all with laser printer access. Perform custom installation of MS-DOS and Mac software. Design and implement central device usage monitoring and control system for all lab workstations.

7/86 - 12/87      **Preserve Manager,** Big Bear Valley Preserve  
The Nature Conservancy, 834 Market St, San Francisco, California

Maintain and and monitor all aspects of a 1200 acre wildlife preserve system. Restoration of damaged habitat for several species of endangered ice-age "pebble plain" plants. Coordinate "topping" of potential perch trees for the California bald eagle. Conduct field surveys of special progress. Create custom flat database application in (Borland) Pascal for use with MS/DOS for recording, searching and viewing survey data. Install untold miles of barbed wire fencing. Police preserves. Conduct wildlife tours.

9/85 - 6/86 **Computer Lab Assistant, VAX 11/750 System Software Programmer**  
9/84 - 5/85 Fletcher Jones Academic Computer Center, University of Redlands, Redlands, California.

VAX system programming in BASIC and Pascal. Design of Macintosh compatible external hardware.

## Education and Certification

**Bachelor of Arts** Computer Science with Application in the Field of Biology,  
University of Redlands, Johnston Center for Integrated Studies

**Certification** **Oracle:** Database Modeling and Relational Database Design  
**Oracle:** Develop PL/SQL Program Units  
**Sun Microsystems:** J2EE Programming  
**Apple Computer:** Level Two Advanced Technician  
**Microsoft:** Window NT Administration  
**Digital Equipment Corp.:** Advanced VMS Operating System  
**IBM:** Various hardware platforms

## Software Application Related Expertise

**Linux** Advanced knowledge of development and file system level command line (shell) operations. Considerable familiarity with administrative operations and shell scripts.

**Macintosh** Advanced working skill with of all Mac operating systems from v6.0 through and including the latest releases of Mac OS X. Knowledge of low level Hierarchical File Systems and their associated Catalog and Extents B-tree structures and mapping tables.

**Windows** I can and will when pressed to do so, or when there is a significant specific advantage in doing so.

**iOS** Fledgling experience developing apps for iOS. Understanding of Xcode IDE, UI tools, and Objective C.

**Android** Significant experience with developing and releasing Android apps for educational purposes. Wrote major portion of complex ARIS app for Android. Several published Android apps on Google Play store.

**Apache** Installation, configuration and administration of Apache, Tomcat on Mac, Linux and Windows.

**MySQL** Installation, configuration and administration of MySQL servers. Advance understanding and facility with SQL Queries, stored procedures, triggers and indexes. High level of expertise in RDBMs design, implementation and optimization. Have created numerous advanced database back ends for web applications from the ground up. Have worked extensively and consistently with various databases for over 20 years.

**Oracle** Installation and configuration of Oracle Database (v8.1) for Windows 2000 workstation class machines. Create and assistance in creation and optimization of Oracle databases for the Solaris (Sun Unix.) Design and/or participation in the design and maintenance of written database aware reporting components for the same, in C++, PL/SQL, Java and Perl.

## Software Development

**PHP** Over 8 years of active development experience with PHP. Familiar with Symfony and Yii frameworks for PHP. Experience with web front end and admin CRUD development.

**Java** Java based Android Apps, Applications, Servlets and J2EE Beans. Have considerable experience with JSP's. Fluent with JAVA API for Android platform.

**C++** Writing and/or maintenance of numerous standalone and middleware applications on both the Solaris (gcc) Windows (MS C++) and Macintosh (Symantec C++)

**Perl** Writing and maintenance of a large-scale dynamic Web Storefront application in Perl which interfaced with database, and outside Financial Transaction Provider (Credit Card score/auth and billing). Design and implementation of a secure shopping cart style session tracking mechanism for insuring best effort reconnection of lost customer web sessions and minimizing accidental multiple billing accidents.

**Javascript/jQuery/AJAX** Active and frequent use in various past projects.

**HTML/CSS** Over 10 years of experience.

## **Other Skills and interests**

**Aesthetic** Almost competent expertise with a variety of musical instruments including mandolin, guitar and piano. Embryonic but promising ability to read sheet music.

Concerned and conscientious environmentalist, with an earnest passion for the well being and welfare of local and global ecosystems.

Socially responsible and caring, with a general focus toward fostering methods for peaceful solutions to the injustices and imbalances of our often imperfect worldwide human community.

**Electronics** I have been an electronic hobbyist since I was old enough to hold a soldering iron by the cool end. Have designed and build countless circuits both analog and digital, and hybrids thereof. Familiar with dedicated microcontrollers, both from the software and hardware ends. Recently designed a nifty transistor sorter from scratch which can discriminate PNP from NPN bipolar transistors using an Arduino Uno USB microcontroller.

**Written Word** Creatively unaverage ability to compose written documents both serious and frivolous intent. Possess a strong vocabulary and have been sited repeatedly for my talent to compose precise yet accessible descriptive texts of difficult and complex topics. Have written dozens of technical documents for various projects and processes with which I have been involved, including user's manuals, development specifications, requirements gathering documents, as well as service and training manuals. Am periodically inspired to compose fictional material for personal amusement, correspondence and inadvertently for publication in the case of two or three such pieces. Frequently told I should have been a writer instead of whatever it is I actually am.

**Miscellaneous** My partner and myself are certified Foster parents with the Oregon Dept of Human Services and actively maintain a shelter care home for children in crisis.

**References:** Available upon request.