

Conley Read

me@conleyread.net

Fax (707) 202-0838
Mobile (951) 712-1119

About this Résumé

In addition to the usual background, I have included selected experiences and projects, which I have led or held a considerable role in, during my graduate and undergraduate education and as a consultant. If you have any questions, please feel free to contact me.

Education

- M.Sc., University of California, Riverside** 2005 – 2008
- Master of Science in Computer Science, Databases and Data Mining
 - Techniques in Information Retrieval for Digital Libraries and the Web
 - University of California, Riverside, College Fellowship – awarded two years consecutively
- B.Sc., University of California, Riverside** 2000 – 2004
- Bachelor of Science in Computer Science & Engineering
 - University of California, Regents Scholar – awarded four years consecutively

Work Experience

- Lecturer, Computer Science, University of California, Riverside, Extension – Riverside, CA** Summer 2006
- Taught the CS 183: Introduction to UNIX Systems Administration course for approximately 20 students
 - Guided students/professionals through an accelerated curriculum culminating in a demanding team project
- Research Intern, Many-core Platform Architecture, Intel Corp. – Hillsboro, OR** Summer 2006
- Created tools to analyze and enhance profiling data from network I/O performance measurement
 - Initiated development of call-graph profiling for the Xen paravirtualized environment
- Systems Administrator, University of California, Riverside – Riverside, CA** 2004 – 2006
- Developed CS Department intranet/extranet web application and core authentication system
 - Plan and purchase next generation student laboratory equipment
 - Adoption and integration of Cisco's advanced network, manage Virtuozzo virtual system environment
- Program Manager Intern, Windows Core, Microsoft Corp. – Redmond, WA** Summer 2004
- Developed Windows Core Engineering team integration strategy and planned implementation
 - Specified future Windows Test Technology to improve "big picture" access to test result data
 - Utilized unique data-driven methodology to enhance cross-team and customer buy-in
- Academic Excellence Program Facilitator, Bourns College, UCR – Riverside, CA** Winter – Fall 2004
- Facilitate biweekly seminar/discussion on data structures for 10-20 undergraduate CS students
 - Increased average seminar attendance 300% from previous sessions
- Consulting & Network Services, (Conley) Read Consulting – Beaumont, CA** 2001 – 2004
- Integrated access to insurer and client data to improve response time for insurance policy underwriting
 - Built Windows Terminal Services Clusters to enable a broad telecommuting solution
 - Cost analysis and research realized on-time and under budget results saving over \$10,000

Project & Research Experience

- Graduate Course in Databases and Master's Project** Fall 2007 – Winter 2008
Efficient Retrieval of Misrecognized OCR Text using Typeface Similarity
- Researched and implemented an efficient query expansion algorithm to retrieve misrecognized terms in a corpus of early 20th century newspaper articles processed with OCR
 - We used a typeface centric approach to identify character similarity and n-grams to identify missed terms
- Graduate Course in Distributed Systems** Fall 2005
Data Dissemination Simulation for Vehicular Ad-Hoc Networks
- Designed and implemented a geographic vehicular network simulator for ad-hoc networks to test a new routing algorithm for effectiveness
 - Our simple algorithm proved reasonably efficient in a low bandwidth highly disconnected vehicular network
- Graduate Course in Advanced Networks** Fall 2005
A Network Measurement Suite for Protocol and Payload Analysis
- Implemented an end-to-end network traffic simulator and analysis toolset to monitor network quality
 - Compared native quality of service by protocol and found that internet routers give TCP an unfair advantage
- Department intranet/extranet application** Fall 2004 – Spring 2006
- Specified and developed UCR CS department extranet and intranet to allow user access to personalized tools, personal and account information, all in one place
- Graduate Course in Animation** Spring 2005
Unification of Direct and Abstract Control Systems for the Human Spine

- Novel new approach to human spine articulation builds upon scientific knowledge of how the human spine moves in relation to adjacent regions of the spine
- Created articulated animated model of the human spine requiring limited user defined input

Graduate Course in Architecture

Winter 2005

DWT Design Exploration with the Riverside Optimizing Compiler for Configurable Computing

- Speedup via software to FPGA (Field Programmable Gate Array) synthesis shows significant improvement over pure software applications
- JPEG2000 image compression algorithm optimization and speedup evaluation achieved through profiling and simulation of high frequency execution paths with FPGA microprocessor circuits generated by ROCCC

Undergraduate Design Project in Database

Winter 2004

Colorkast Paint Selection System

- Applied data mining techniques to paint color collection matching using distance analysis in HSL
- Developed working specification with client and created spatial database for mining, with team
- Completed detailed web interface to database, including specialized search tools and algorithms

Undergraduate Research in Systems

Fall 2003 – Winter 2004

Linux Terminal and Grid Client Services

- Designed, implemented, documented Linux terminal services solution with team with Dept. Chair
- Implemented breakthrough diskless client and server with application caching, local and grid processing

Undergraduate Project in Systems Administration

Spring 2003

UNIX Systems Administration Toolkit

- Created Systems Administration Toolkit as small Linux distribution with team of six
- Principally responsible for realization of live network bootstrapping and update packaging system

Teaching Experience

Lecturer

- Introduction to UNIX Systems Administration – UNIX Administration Concepts

Summer 2008

Teaching Assistant

- Embedded Systems Design – Student Project Course in Systems Design
- Technical Communications – Project in design, specification, documentation and presentation
- Effective use of Computers and the Internet – Mandatory class for MBAs
- UNIX System Administration

Winter – Spring 2008

Winter – Fall 2007

Summer 2006

Winter 2005

Tutoring

- Academic Excellence Workshop Facilitator

Winter – Fall 2004

Skill Sets

Skill Area:	Project Management, Information Retrieval, Data Mining, Database Design, Systems, Simulation/Analysis
Languages:	C++, C, C#, Ruby, Python, Perl, PHP, Java, Shell, SQL, HTML, CSS, XML
Databases:	PostgreSQL, MySQL, SQL Server, Access, SQLite
Software:	Vim, g++, Visual Studio, OProfile, gprof, vTune, Apache, Virtuozzo, VMware
Environment:	Windows (95/98/NT/2000/XP/Vista/Server), UNIX (Linux/FreeBSD), Mac (9/X)

Leadership Experience

Treasurer, Association for Computing Machinery Student Chapter

2003 – 2004

UC Riverside – Premier Bourns College of Engineering Professional Organization

- Oversaw programs resulting in 40% increase of chapter student membership
- Implemented ACMServer, an Alumni supported, value-added service and UCR ACM funds conduit
- Created content and design for <http://acm.cs.ucr.edu/exec/>

Background Coursework

Advanced Databases, Data Mining, Distributed Systems, Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Advanced Architecture, Parallel and Concurrent Systems, Advanced Networks, Computer Animation, Systems Administration, Compiler Design, Simulation and Analysis, Operating Systems, Engineering Statistics, Physics, Circuit Design

Honors & Activities

Honors	<ul style="list-style-type: none"> • University of California, Riverside, College Fellowship • University of California, Regents Scholarship 	<p>Winter 2005 – Fall 2006</p> <p>Fall 2000 – Spring 2004</p>
Activities	<ul style="list-style-type: none"> • Treasurer, Association for Computing Machinery, UC Riverside Chapter 	<p>Winter – Fall 2004</p>
Membership	<ul style="list-style-type: none"> • IEEE National • National ACM • Microsoft Developer Network 	
Hobbies	<ul style="list-style-type: none"> • Bicycling, Hiking, Climbing, Systems Administration, Programming, R/C Planes, Piano, Trumpet, German 	

References

Dr. Dimitrios Gunopulos, Department of Computer Science and Engineering, Bourns College of Engineering

- University of California, Riverside – Riverside, CA 92521 – Office (951) 827-2479 – dg@cs.ucr.edu
- **Additional References Available on Request**