

James Kearney
801 Leroy Pl. #2035
Socorro, NM 87801
505-302-6051
jkearney@nmt.edu

U.S. Citizen
210 E. Cherry Lane
Carlsbad, NM 88220
505-885-1934

Availability

Full time starting January, 2006.

Objective

Scholarship for Service (SFS) CyberCorps student, seeking work in computer science/information technology field — particularly supercomputing operating-system security research.

Education

Current

Undergraduate at New Mexico Institute of Mining and Technology (NMIMT) — Computer Science Major, Mathematics Minor.

Coursework

Computer Science:

Information Warfare	Digital Forensics	Parallel Programming
Software Security	Compiler Writing	Networks
Formal Languages and Automata	Algorithms	Principles of Operating Systems
Databases	Software Construction	Principles of Programming Languages
Digital Electronics	Computer Architecture	Graphics

Spoken Languages:

French Chinese

Work Experience

Research Assistant - NMIMT

Computer Science Department — Developed and awaiting publication on a self-protecting system built to minimize attack-recovery times and to provide passive attack attribution.

Electrical Engineering Department — helped implement and maintain a Linux-based cluster, with the purpose of developing it into a solution for an AFRL contract. Involved distributed programming, creating performance benchmarks.

Data/Security Specialist - New Mexico Bureau of Land Management

Research and development of scanning/cataloguing techniques to implement a data-warehouse/distribution center to be deployed across the Bureau (nationwide). Additional work in securing current computer systems and planning more secure development of future systems.

Database Administrator - Department Of Energy Carlsbad Area Operations

Helped maintain a mission-critical database (Oracle-based) designed by multiple vendors, as well as working with the in-house team to design the next version. Also wrote programs for numerous users to help them make better decisions based on the information contained in the database.

Network Technician, Customer Support - Friendly Internet Service

Two years in hardware/software repair, support (troubleshooting connection issues for customers) via email, phone, and personal assistance.

Additional Experience

Architectures/Applications

Experienced in UNIX (Linux, OpenBSD, AIX, IRIX, Solaris, etc...) and nearly all versions of Windows. Design and implementation of TCP/IP networks, including securing (IDS', firewalls, honeypots/nets, etc.) and troubleshooting.

Programming Languages

Very experienced in C, C++, SQL.

Skilled in Perl, Python, MPI, OpenMP, Lisp, PL/SQL, Altera, Java, OpenGL.

Somewhat Familiar with: Assembly (Intel, MIPS), MatLab, etc.

Other

Past president of NMIMT student chapter of the ACM (and a participant on the winning team of numerous competitions), three years in Super Computing Challenge/AIS. Participant in Boy's State, 1998.