

Mark James Stacey

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Relevant Experience

Relevant Work Experience ~

- Summer Internship as Associate Scientist at Bechtel Nevada / Lockheed Martin's Remote Sensing Laboratory. Operated in a government classified organization as part of a three-man team producing a tool capable of gathering and communicating data acquisition in real-time. Programmed with Bluetooth and 802.11 protocols, Microsoft Embedded Systems, Microsoft IIS configuration and security involving digital certificates, smart card configuration and application for use in PKI, designing and implementing encryption schemes. All coding was done in compliance with specifications described in Federal Information Processing Standard (FIPS) documents.

Senior Class Projects ~

- Mathematical Cryptography - A discussion concerning the growing study of using photons for establishing cryptographic keys.
- Security Techniques - Worked within a specialized computer network segregated from U of I and the internet to develop several software tools focused on locating code vulnerabilities and exploiting the application executables to obtain administrative access to various systems. Current class projects within this lab include buffer overflows, format strings, intrusion detection, various hardware/software hacks, personally rebuilt and applied rootkits and worms including Slapper-A. These utilities are not available for viewing or download.
- Individual Senior Design - Designed, developed, and implemented a database and web-based user interface for tracking defects in software development. This system contains secure user logon and is thoroughly documented. Presentations accompanied three releases throughout the semester. As a side project, intrusion detection system SNORT was later applied to this site.
* Note: My senior design group is currently using this system for tracking defects. All data presently available to the public is associated with my CS481 group.
- Group Senior Design - Design, document, implement IDL, XML, OSD parsing utility sponsored by Hewlett Packard. This utility is intended for use by the HP Laser Jet testing team. Selected documents and associated files are parsed and displayed to the user in a more readable format. This system is still in progress and becoming further documented. Presentations accompany three releases throughout the semester.

All of the above school projects excluding CS404 may be found at the following address:
<http://www.cs.uidaho.edu/~stac9931>

Wishing to specialize in computer security and mathematics, I have taken the following electives: Math275 Calculus III; PHYS213 Engineering Physics III; CS404 Applied Security Techniques; Math435 Mathematical Applied Cryptography; CS442 Computer Security Concepts; CS447 Network Forensics
Within these upper-division classes, I have maintained a GPA of 3.3.