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Contact Information

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Education

Ph. D. University of California, Santa Barbara (September 2004 – present)
(2004 – present) Major: Computer Science
Expected date of graduation: 2009

B.S. University of California, Santa Barbara (September 2001- June 2004)
(2000 – 2004) Major: Computer Science
Graduated with highest honors.
Ventura College, California (January 2000 – June 2001)
Pre-transfer coursework in Computer Science

Professional Experience

Research Assistant (September 2004 – present)
Computer Security Lab, University of California, Santa Barbara
Perform research on vulnerability analysis and testing for security with emphasis on web applications.

LANL UGS Intern (Summer 2004)
Los Alamos National Laboratory, Los Alamos, New Mexico
Worked on MPI parallelization of Fortran-based software for improved performance.

Undergraduate Student Researcher (Spring 2004)
Reliable Software Group, University of California, Santa Barbara
Performed research on mobile code security.

LANL RISE Intern (Summer 2003)
Los Alamos National Laboratory, Los Alamos, New Mexico
Investigated possible approaches to and developed a parallel version of SENSE (Sensory Enhanced Neural Simulation Engine) Fortran code using MPI.

Publications

1. M. Cova, V. Felmetzger, and G. Vigna, “Vulnerability Analysis of Web Applications”, a chapter in a Monograph on Test and Analysis of Service-oriented Systems, Springer-Verlag, 2007. To appear.
2. M. Cova, V. Felmetzger, G. Banks and G. Vigna, “Static Detection of Vulnerabilities in x86 Executables”, In Proceedings of the 22nd *Annual Computer Security Application Conference (ACSAC)*, pp. 269-278, Miami, Florida, December 2006.
3. G. Banks, M. Cova, V. Felmetzger, D. Kemmerer and G. Vigna, “Application Testing and Analysis for Security”, Extended Abstract, In Proceedings of the 1st *Annual Computer Science Graduate Student Research Conference (GSRC)*, Department of Computer Science, University of California, Santa Barbara, October 2006..
4. G. Banks, M. Cova, V. Felmetzger, K. Almeroth, R. Kemmerer and G. Vigna, "SNOOZE: toward a Stateful NetWork prOtocol fuzZEer", In Proceedings of the 9th *Information Security Conference (ISC)*, Samos Island, Greece, September 2006.
5. V. Felmetzger and G. Vigna, "Exploiting OS-level Mechanisms to Implement Mobile Code Security", In Proceedings of the *IEEE International Conference on Engineering of Complex Computer Systems (ICECCS)*, pp. 234-243, Shanghai, China, June 2005.