

# Frank Adelstein

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## PROFILE

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Information Technology Professional with extensive experience in research and development in areas of computer security (systems, network, host, and data), networking, and digital forensics. Related areas of expertise include embedded and low-level systems, operating systems and distributed computing.

### ***Core Competencies Include:***

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|-----------------------|----------------------|---------------------|-------------------|
| ▫ Computer Security   | ▫ Computer Forensics | ▫ Networking        | ▫ SW Development  |
| ▫ Systems Programming | ▫ Software Testing   | ▫ Network/Sysadmin  | ▫ Problem Solving |
| ▫ Team Management     | ▫ Task Planning      | ▫ Teaching/Training | ▫ Grant Writing   |

### ***Technical Skills:***

**OS:** Linux (Ubuntu, Red Hat, CentOS, SuSE, Fedora, Debian, Slackware), FreeBSD, Unix (SYSV, BSD), Windows (2000, XP, 2003, Vista, 7, 10), MTS, Domain/IX, VM.

**Languages:** Python, Go, C, C++, Javascript, Java, Perl, bash/sh/csh, Lisp, PHP, tcl/tk, Postscript, Pascal, FORTRAN. IBM 370, 8086, Z-80 and 68000 Assembly Languages. HTML/CSS, GTK+.

**Tools:** MySQL, Apache, VMWare/VSphere, VirtualBox, Photoshop, Illustrator.

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## WORK EXPERIENCE

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### ***Owner***

NFA Digital, LLC, Ithaca NY

7/17-present

- Conducted a security assessment for a local start-up.
- Analyzed hospital network data to identify medical devices and detect unusual activity for a NYC-based start-up. Assisted with product development.

### ***Director of Engineering***

Cayuga Networks, Ithaca NY

5/14-2/17

- Supervised software development for network web server security product, included task planning and scheduling, code consultation, and test planning.
- Primary contact with all customers; created and reviewed customer security incident reports.
- Team lead for Eval Group that tested the product, and discovered new, undetected attacks.
- Created test and performance analysis software.
- Created company security policy (including HIPAA compliance) and was Site Security Officer.
- Performed system administration duties, including setting up LDAP and creating online/offline backup system.

### ***Software Engineer III***

GammaTech, Ithaca NY

9/12-5/13

- Lead programmer for automatic malicious code detection; web based interface for SW assessment tool; and internal testing visualization tool.

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## ***Senior Staff Scientist***

ATC-NY, Ithaca NY

1/99-6/12

- Led numerous government funded grants for research and development in computer security, forensics, and networking.
- Transitioned two projects to commercial products (P2P Marshal, OnlineDFS).
- Created and taught training courses.
- Served as advisor for computer security and forensics projects.

## ***Partner***

MyCause.com, Ithaca, NY

7/98-4/08

- Co-created and ran a web site that allowed users to buy items through Internet vendors and have a portion of the price benefit a charity of their choice.

## ***Postdoctoral Research Associate***

Cornell University/Xerox Design Research Institute, Ithaca, NY

9/95-12/98

- Primary contributor to the design and implementation of database interoperability assistant for DARPA grant to provide automatic generation of translation of different data and database formats. Researched ways of gathering metadata from web pages and using it in databases.

## ***Graduate Teaching Assistant***

The Ohio State University, Computer and Information Science, Columbus, OH

3/93-5/95

- Responsible for all aspects of teaching the department's one-credit courses on C and FORTRAN.
- Wrote syllabus, lectures and labs, as well as grading the labs and final and selecting the textbook.

## ***Graduate Administrative Assistant/System Programmer***

The Ohio State University, Computer and Information Science, Columbus, OH

9/89-9/94

- Responsible for all X-Window related software including user support, customized user environments, and worked on various system utilities. Created Mac-like file browser for introductory students.

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## EDUCATION

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**PhD**, Computer Science, Ohio State University, June 1995

**MS**, Computer Science, The Ohio State University, December 1990

**BS**, Computer Engineering, University of Michigan, May 1988

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## PUBLICATIONS

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Book - *Fundamentals of Mobile and Pervasive Computing*, McGraw-Hill, 2005, ISBN: 0071412379

8 journal articles, 16 conference papers, 6 tutorials, 15 invited talks, 8 patents.

Full list at: <http://frank.notfrank.com/papers.html>

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## ACTIVITIES

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Secretary/Board of Directors of Digital Forensics Research Workshop

Editorial Board of Elsevier Forensic Science International Journal

Secretary/Board of Directors of East Hill Flying Club

CTO/Board of Directors Ithaca Area Ultimate Alliance