

Note: Not currently seeking employment.

Evan Teran

SOFTWARE ENGINEER



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Work Experience

Principal Security Researcher

2013 - PRESENT

Digital Operatives (<http://digitaloperatives.com/>), Full-Time

At Digital Operatives I have worked on several projects ranging from tools to perform static code analysis to network analysis.

- Project lead of Digital Operatives' implementation of DARPA ICAS (<http://www.darpa.mil/program/integrated-cyber-analysis-system>) named FUSION (Federated Understanding of Security Information Over Networks)
- Developed Qt GUI for internal code analysis projects
- Developed LLVM (Low Level Virtual Machine) optimization and analysis modules

Senior Developer

2007 - 2013

iSIGHT Partners (<http://www.isightpartners.com/>), Full-Time

At iSIGHT Partners I worked on a wide variety of things involved in computer security research and reporting.

- Performed research and exploit proof of concept development
- Analyzed publically annouced vulnerabilities
- Developed novel geolocation technology which was able to successfully have city level accuracy with a relatively small (non-extensive) core database
- Developed web applications for internal use

Senior Developer

2002 - 2007

Sytex Inc. / Lockheed Martin - ATL (<http://www.atl.external.lmco.com/>), Full-Time

Directly after graduation, I began work at Sytex Inc., where I worked on several computer security related research projects. Often involving deep knowledge of the affected operated systems at a kernel level.

In 2005, Sytex Inc. was acquired by Lockheed Martin, where I continued my work in computer security research.

- Performed research and exploit proof of concept development
- Kernel development

IT Director, Lead Developer

2001 - 2002

Cohen's Fashion Optical (<http://www.cohensfashionoptical.com/>), Full-Time Summer Job

I spent two summers acting as the head of the computer department at Cohen's Fashion Optical. There I did everything from IT management tasks to web development.

- Managed Company Network, Databases, Servers, Technical Support
- SQL Database Design/Development
- Developed GVS website
- Developed internal web service for "Vision Pass" program
- Implemented management utilities with C++ to allow staff to alter database with no programming knowledge

Specialty Counselor (Computers) at Hofstra University

1999 - 2001

Hofstra University (<http://www.hofstra.edu/>), Full-Time Summer Job

As a summer job, I taught HTML to kids ages 8+, and Visual Basic to kids ages 13+.

- Taught Visual Basic programming
- Taught HTML design

Personal Computer Consultant

1993 - 1997

Self Employed, Part-Time

While in high school, I advertised in the local newspaper offering assistance to neighborhood with anything computer related. Sometimes this simply meant helping someone install new software, sometimes I created web sites for small businesses.

- Gave on-site computer consulting and tutoring
- Provided troubleshooting and maintenance of PCs

Personal Projects

I find that the best way to learn something new is to make it a project and dive right in. Because of this over the years, I have worked on many personal projects. Sometimes for fun, sometimes for education. But always things which I believe make me a better developer. Here are some of the projects that I have found the most interesting to work on. For a more complete list, you can visit my Github (<https://github.com/eteran>) page.

- Author of a successful Nintendo ® emulator named "Pretendo" (<https://github.com/eteran/pretendo>)
- Worked on a JRPG (Japanese Role Playing Game) containing tile based graphics, a fully customizable C-style event scripting system, a map editor, a "battle" editor, and support for NPCs
- Developed an x86 Operating System
- Developed a debugger named "edb" (<https://github.com/eteran/edb-debugger>) (Evan's Debugger), designed for debugging application to which you do not have the source code

Technical Skills

x86/x86-64 Assembly, C, C++ (<https://isocpp.org/>), Qt (<http://www.qt.io/>)

EXPERT, 15+ YEARS

These technologies are ones which I have used extensively over the years.

Because system's level programming is my primary field of interest, naturally, C and C++ have been my primary languages of choice. I am deeply familiar with both these languages, including the newer C++11, C++14, C99, & C11 standards.

Additionally, I have a lot of experience writing assembly code both for optimization and exploit research.

Finally, Qt has been a core UI (and more) library in my projects and is something that I enjoy working with.

Java (<http://java.sun.com/>), Javascript, JSON ([JavaScript Object Notation](http://www.json.org/)) ADVANCED 5+ YEARS
(http://json.org), PHP (PHP: [Hypertext Preprocessor](http://www.php.net/)) **(<http://www.php.net/>), Bash,**
SQL, Python (<https://www.python.org/>), HTML, CSS, Bootstrap (<http://getbootstrap.com/>), LLVM
(<http://www.llvm.org/>)

These technologies are ones which I have used often throughout my career. I am very comfortable with them, and work with confidently.

VBScript, Eiffel, BASIC, VAX Assembly, MIPS Assembly, LISP, Perl EXPERIENCED 1+ YEARS
(<https://www.perl.org/>), Sed, Awk, DirectX, Pascal, Django
(<https://www.djangoproject.com/>)

These are technologies that I have worked with before. While I certainly don't consider myself an expert in any of them, I feel that I am proficient with all of them. I am able to read and understand code written using these technologies and would be able to quickly jump into writing new code.

Operating Systems

DOS, Windows (<http://www.microsoft.com/en-us/windows>), OSX (<http://www.apple.com/osx>), Solaris
(<http://www.oracle.com/solaris>), FreeBSD (<https://www.freebsd.org/>), Linux, BeOS, Symbian OS

My primary development platforms are Linux and Windows, with Linux being the current favorite. Windows dating back to the 9x series. In addition to that, I have written software for many other operating systems, typically while porting a project.

Education

Rochester Institute of Technology (<http://rit.edu/>) 1998 - 2003

Bachelors of Science in Computer Science