

PETER THEOBALD

Software Engineer & Computer Forensic Analyst

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WORK EXPERIENCE

TC FORENSICS INC. (Formerly KLG COMPUTER FORENSICS, LLC) - 2006 to Present, Syosset NY

Computer Forensics Analyst / Founder

Provide computer forensics services to attorneys, law firms and courts. I find hidden or destroyed data, investigate data breaches, provide expert testimony related to computer evidence. Court appointed expert in New York, Nassau and Suffolk counties.

- Analyzed computer and cell-phone data (FTK, X-Ways, MPE, Scalpel, Linux, etc) in over 200 litigated matters.
- Wrote **Python** and **Perl** code to parse file formats, databases, filesystems (NTFS, HFS+, EXT), and encrypted data.
- Performed Extract, Transform and Load (**ETL**) of difficult, undocumented, partial and damaged data using a variety of tools including Open Refine and custom **Python** code
- **Bitcoin** (cryptocurrency) tracing, wallet recovery, transaction tax calculations
- Designed and admin cost-effective reliable ZFS-on-Linux SAN with snapshots and off-site replication for evidence storage
- Presented seminars, **public speaking** engagements and **training** in computer forensic topics.

TURTLECOVE TECHNOLOGY, INC. - 2000 to Present, Syosset NY

Software Developer

Developed web sites and desktop applications: backend, database and front-end. Clients include SponsorClick.com, AgencyAccess.com, DMLT (Investment Cafe), Wine Alert (eRobertParker.com) , ICS Network Systems (MailSentry), AllBooks4Less.com (Half.com) and more.

- Technologies used include **Python, Perl, C, C++, Cold Fusion, PHP, Javascript, jQuery, SQL** (PostgreSQL/MySQL/MSSQL), **Web spidering, Linux admin**, Sendmail milter plugins

LI NET, INC. (Acquired by VERIO, INC.) - 1995 to 1999, Smithtown NY

Co-Founder

Founded the Internet Service Provider, LI Net, with three partners and little capital; In the span of four years we built LI Net to the largest ISP on Long Island, NY providing high speed Internet access and web hosting to thousands of Long Islanders and hundreds of companies. LI Net was acquired by Verio/NTT, a national roll-up of the top 50 regional ISPs, for over \$7M and merged into their national network.

- Web site development (**Cold Fusion, SQL** (PostgreSQL, MySQL), **Javascript/JQuery**, HTML)
- **Linux admin (Perl, sh/bash)**, Apache server admin, Usenet server admin
- Sales engineer, **Public speaking** (seminars, presentations), **Training**

LEHMAN BROTHERS, INC. - 1994 to 1995, New York NY

Senior Systems Analyst, Fixed-Income Derivatives

- Supported overnight value-at-risk calculation process (**C++, Perl, sh/bash, SQL/Sybase**)
- Added support for Bermuda style options to Black Scholes based option pricing modules (**C++**)
- Supported derivatives trading desk and SUMMIT trading system (Summit, **C++, Perl, sh/bash, SQL/Sybase**)

QUOTRON SYSTEMS / CITIBANK - 1993 to 1994, New York NY

Software Specialist

- Added custom functionality (**C/C++**, **SQL**) and provided **training** to Quotron Trading Support System clients including Credit Suisse First Boston, Paine Webber

ERI - 1991 to 1993, Hauppauge NY

Senior Programmer/Analyst

- Designed and developed ERI's document imaging system (**C++**, **SQL**/Informix, Excel, X/Motif)
- Developed custom programming solutions (**C++**) for clients including Salomon Bros., Price Waterhouse
- Performed installations and training for Salomon Bros., Brooklyn Union Gas, Banco Bradesco (in Sao Paulo, Brasil), others
- Supported sales staff in demonstrating and customizing technology products (Sales Engineer)

NEC AMERICA - 1990 to 1991, Melville NY

Software Engineer

- Designed and developed NEC's SP120 Network Security router for securing circuit-switched Frame Relay and X.25 network communications (**C/C++**, Linux, Frame Relay, X.25, Firewall, SNMP, CMIP)

EDUCATION AND TRAINING

University at Buffalo: **B.S. Computer Science**

AccessData Certified Examiner (ACE), AccessData Mobile Examiner (AME)

New York Institute of Finance: Intermediate & Advanced Derivative Products

PROFESSIONAL AFFILIATIONS

- Member Board of Advisors SUNY Farmingdale Dept. of Security Systems and Law Enforcement Technology - December 2019 - Present
- Co-chairman of the Computer Forensics subcommittee of the American Bar Association, Section of Litigation Expert Committee - April 2013 – September 2014

PATENTS

US Patent Pending US20090300128 A1, "E-MAIL AUTHENTICATION PROTOCOL"