

PETER THEOBALD

Software Engineer & Computer Forensic Analyst

Peter@PeterTheobald.com

linkedin.com/in/PeterJTheobald

(631) 662-4277 | Huntington, NY

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 plugins (milters)

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. We were acquired by Verio, a national roll-up of the top 50 regional ISPs, for over \$7M.

- 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), Excel)

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)

DIGITAL ARCHIVE COMPUTER SERVICES - 1988 - 1990, Syosset NY

Programmer Analyst

- Developed a tele-radiology system used for remote viewing of radiology images for diagnostic and legal purposes (**C**, digital image processing)
- Performed installations and **training** of the tele-radiology system at various medical facilities including Syosset Hospital, North Shore University Hospital and others

STATE UNIVERSITY OF NEW YORK AT FARMINGDALE - 1989

Adjunct Professor

- Taught **C**, **C++** programming

EDUCATION AND TRAINING

University at Buffalo: **B.S. Computer Science** 1988

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

New York Institute of Finance: Intermediate & Advanced Derivative Products 1995

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"