



## Software Engineer / Computer Forensics Analyst

## Work Experience

TC FORENSICS, INC. (Formerly KLG COMPUTER FORENSICS, LLC) - *Computer Forensics Analyst / Founder*  
2006 to Present, Syosset NY

Provide computer forensics services to attorneys, law firms and the 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 filesystems (NTFS, HFS+, EXT), databases, file formats and encrypted data.
- Performed Extract, Transform and Load (**ETL**) of difficult, undocumented, partial and damaged data using a variety of tools, often custom **Python** code
- **Bitcoin** (cryptocurrency) tracing, wallet recovery, transaction tax calculations
- Designed and admin cost-effective failure-proof ZFS based SAN with snapshots and off-site replication for evidence storage
- Presented seminars, **public speaking** engagements and **training** in computer forensic topics.

TURTLECOVE TECHNOLOGY, INC. - *Software Developer*  
2000 to Present, Syosset NY

Developed web sites and desktop applications: server, 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**/Java, PHP, **Javascript**, **jQuery**, **SQL** (PostgreSQL/MySQL/MSSQL), **Web spidering**, **Linux admin**, Sendmail plugins (milters)

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

**Founded** LI Net, an early Internet Service Provider, 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**/Java, **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. - *Senior Systems Analyst, Fixed-Income Derivatives*  
1994 to 1995, New York NY

- 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, INC. / CITIBANK - *Software Specialist*

1993 to 1994, New York NY

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

ERI, INC. - *Senior Programmer/Analyst*

1991 to 1993, Hauppauge NY

- Designed and developed ERI's document imaging system (**C++**, **SQL**/Informix, Excel, X/Motif)
- Developed custom programming solutions 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, INC. - *Consultant*

1990 to 1991, Melville NY

- 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, INC. - *Programmer Analyst*

1988 - 1990, Syosset NY

- Developed a tele-radiology system used for remote viewing of radiology images for diagnostic and legal purposes (**C/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 - *Adjunct Professor (1989)*

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

## Education and Certifications

AccessData Certified Examiner (ACE)

AccessData Mobile Examiner (AME)

ACCESS DATA, INC: Forensic Toolkit training 2004

NEW YORK INSTITUTE OF FINANCE: Intermediate & Advanced Derivative Products 1995

STATE UNIVERSITY OF NEW YORK AT BUFFALO: **B.S. Computer Science** 1988

## Professional Affiliations

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"