

## Summary

- 18 years experience in building commercial applications, APIs, and systems.
- Deep knowledge of applied security, standards work, and research engineering.
- History of entrepreneurship, innovation, community building, and code excellence.

## Professional Experience

### **Founder/Creator**

**Habitual Knowledge, San Jose, CA**

**09/2007 –**

Habitual Knowledge builds services and APIs around the idea that your online activities dynamically define your social networks.

I designed algorithms, implemented and deployed the system, and created front-end plugins for browsers and mail clients.

### **Acting CTO**

**Yubico, Sunnyvale, CA**

**06/2007 – 11/2007**

Yubico creates novel and secure authentication products and services.

- Helped define strategy and [implemented products and service APIs](#).
- Headed up the US offices, including hiring engineering staff.
- Invented payment services on top of Yubico authentication services (patents pending).

### **Principal Engineer**

**VeriSign, Mountain View, CA**

**12/2000 – 06/2007**

Member of [VeriSign Labs](#) in the security and information services division.

- Researched new concepts with focus on security and identity (multiple patents filed).
- Drove standardization and prototyped specifications and new product concepts, such as [OpenID](#), [blog feed security](#) and [secure content services](#).
- Lead development team of an [OpenID server](#); wrote an [open source OpenID library](#).
- Drove [XKMS](#) from idea to first live service.
- Represented VeriSign in several standards bodies as [interop chair](#), [editor](#), and [author](#) and wrote an [open source Java XML security library](#) to implement these standards.
- Developed an [XML gateway/firewall](#) for simplified web services security handling.
- Performed security analyses and reviews of internal and external products.
- Headed up internal efforts to improve code quality.
- Participated in [Sun's Java Community Process](#) expert groups to create [Java 6 APIs](#).
- Internal/external speaker on Java, security, and open source.
- Promoted from Senior Engineer to Web Services Architect to Principal Engineer.
- Came to VeriSign by acquisition of *Nanobiz*, where I designed and implemented [graphical XML development tools](#).

**Consultant at various companies**

**1995–2000**

- [Hewlett-Packard](#): designed and implemented the original [e-speak](#) security architecture and created the first e-speak pilot.
- [Stanford Research Institute \(SRI\)](#): developed a federal e-commerce security pilot.
- [RSA Security](#): lead, designed, and implemented a security project using [SecurID](#) tokens for authentication and automated X.509 certificate life cycle management.
- [Fujitsu](#): implemented a single sign-on solution for world-wide staff of 16,000 people.
- [AXENT/Symantec](#): built smart card-based authentication solutions.
- [JavaSoft \(Sun Microsystems\)](#): lead [Java Card 2.0](#) design and implemented payment protocols and designed the overall Java Electronic Commerce Framework (JECF).
- [IBM Zurich Research Laboratory](#): developed and prototyped the [iKP](#) e-commerce protocol. (iKP was later bought by Visa and MasterCard and turned into [SET](#).)

**Other experience, education, miscellaneous**

- Recurring speaker at JavaOne, ApacheCon, SD Expo.
- Designed and implemented financial trading software in London, UK, during 1995.
- Designed and implemented UIs, data dictionaries, alarm systems, factory process monitors, compilers, web servers from 1990 to 1994 at Volvo in Sweden.
- BS in Systems Analysis and Computer Science, Lund University, Sweden.
- Comp Sci, English, Latin, Biology, and Law at Gothenburg University, Sweden.
- Fluent in Swedish and English. Also speak German and Portuguese.
- Personal blog at <http://commented.org>. Write and play [music](#) and write [screenplays](#).

**Technology summary**

*Security:* cryptography, PKI, SSL/TLS, SAML, WS-\*, OpenID, OAuth.

*XML:* DOM, schema, XPath, security, SOAP, WSDL, WS-\*

*Web Services:* SOAP, WSDL, WS-\*, REST.

*Deployment:* capistrano, deprec, mongrel, Apache httpd, Apache tomcat, jetty.

*Languages:* Fluent in Java, Ruby and Ruby on Rails. Excellent in C++, C, ActionScript 3.0. Know Perl, PHP, Python and JavaScript.

*DBMS:* MySQL, PostgreSQL, SQLite.

**References available upon request**

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