

John F. Nixon, Ph.D.

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Career Summary

Bring 20 years expertise in IP networking, software development, system/network security, and distributed system design, including 10 years engineering management, to work for your company. Wide, cross-discipline experience, from embedded software to national ISP infrastructure.

Professional Skills

Quick learner, smart, and gets things done. Program and departmental **management**. Full lifecycle product **design** and **development**, including **test driven development**. Languages include **C**, **Objective-C**, **Ruby**, **Javascript** along with **Rails**, **Cocoa**, **Bootstrap** frameworks and **Public Key Crypto** libraries. Deep experience with **IP networking** and **distributed systems**. Expert level mastery of **Internet protocols**, **network security**, **Linux** and **UNIX internals** and **system administration**.

Employment

Oct/15-Present *GP Research*

Founder & CTO - Designed and developed significant enhancements to email security software based on the key

distribution technology of the Dark Mail Technical Alliance. The *JustSign* product signs and verifies email in an unobtrusive fashion, while *JustEncrypt* will automatically decrypt and encrypt email to addresses which publish a suitable public key.

May/15-Sep/15 *CAS Group*

Senior Open Source Developer - Developer for a reference implementation of Draft RFCs of the Dark Mail Technical Alliance.

Nov/10-May/12 *Medicalendar*

Founder - Designed and developed a prescription manager targeted at caregivers and individuals with special medical needs in cooperation with Emory physician. Rails application provided a comprehensive list of medications, a dose reminder service, refill reminders, and drug interaction evaluation.

Nov/99-Aug/02 *Earthlink* (after merger with Mindspring)

VP Research and Development – At Earthlink, evaluated last-mile IP delivery systems for new business opportunities, including broadband over power line, in-flight broadband, and wide area wireless. Forecast the emergence of in-flight broadband, founded partnership with early in-flight satellite provider for broadband access. Technical expert for Earthlink patents during IBM's patent negotiations, with cross-licensing terms giving significant savings.

Aug/95-Aug/02 *Mindspring Enterprises*

VP Engineering – Ran the scaling efforts for Mindspring's core ISP services (mail, web, nntp, DNS, authentication) as we grew from a few thousand Atlanta customers to several million national customers, permitting Mindspring to offer flat-rate service early on, which was key to subsequent growth. Developed and deployed one of the first large-scale IP-less business web hosting services giving one of our most successful business products. Separated business and consumer

services, launching business products department resulting in better product and support focus and company financials. Managed the systems integration of acquired regional ISPs into the Mindspring infrastructure while retaining legacy customer email addresses.

Jan/94-Aug/95 *Integral Systems, Inc.*

Principle Consultant – Contracted with Tennessee Valley Authority development of Load Optimization tools. Embedded system development as a FedEx contractor on handheld package tracker. Successfully fielded software emulation testbed, rewrote radio modem device drivers and interprocess communications library for the new hardware prototype.

Sep/90-Sep/94 *University of Tennessee at Chattanooga*

Assistant Professor of Computer Science – Research areas of distributed computing, networking security, and operating system design. Member of the Graduate and Undergraduate faculty, teaching freshman intro to graduate courses. Led the adoption of PC based Pascal as environment for introductory CS classes, replacing COBOL on an IBM mainframe. Sponsored MS theses and senior honors projects. Awarded Outstanding Computer Science Professor based on student evaluations.

Sep/89-Sep/90 *General Electric Advanced Technology Labs*

Senior Member of the Technical Staff – Technical lead on several Federal contracts in distributed computation, including evaluation of realtime extensions to the Mach OS; designed a distributed testbed for Carnegie Mellon's fault tolerant Alpha OS.

Mar/87-Sep/89 *General Research Corporation*

Senior Scientist – Led successful development team for a distributed communications package integrating with Army simulation projects. Major technical contributor during implementation and lifecycle maintenance.

Education

Vanderbilt University PhD, Computer Science

Vanderbilt University BA, Physics/Mathematics/Astronomy