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Gregory D. Skinner

Summary of qualifications

25+ years of networking, distributed systems, and software development experience. Looking for full-time, part-time, contract, or contract-to-hire positions in my areas of expertise.

Specialties

C, Perl, and Unix shell programming (Teaching myself Python and C++)
TCP/IP
BGP, IPv6, IRR
Unix (OpenBSD, NetBSD, FreeBSD), Linux (RedHat, Ubuntu, Amazon Linux)
Ixia IxNetwork, N2X

Web Links

LinkedIn Profile: <https://www.linkedin.com/in/greg-skinner-85124a/>

CV (includes links to some open-source projects I have participated in):
<https://gds.verio.com/cv/>

GitHub Profile: <https://github.com/gregbo>

Quora Profile: <https://www.quora.com/profile/Greg-Skinner-1>

HackerRank Profile: <https://www.hackerrank.com/profile/gregskinner0>

Work experience

2011-present

Not Currently Employed

Left the workforce in December 2010 to rest and handle family matters. During that time, participated in several IETF working groups, reviewing drafts for publication and classification. Also tested dance contest scoring software ranking algorithms and evaluated them against several voting method criteria.

2008-2010 Equinix, Inc., San Jose, CA

Sr. Network Engineer

Software development of BGP route servers. Development of Equinix Direct Route Server in C and Multi-Lateral Peering Exchange provisioning tools in Perl. Development of testing methodology for OpenBGPd and Bird route servers using N2X (Agilent), Ixia, Perl Net::BGP, Quagga, Cisco IOS, and JunOS.

2007-2008

Not Employed

Participated in CollegeConfidential forums on STEM majors and careers. Evaluated IPv6 tunneling and SixXS IPv4-IPv6 gateways.

9/2005-2/2006 Nominum, Inc., Redwood City, CA

QA Engineer (temp hire)

Implemented testing tools, including traffic generation in C using the tcpdump pcap library and zone generation in Python. Ensured DNS protocol conformance of web UI applications.

2004-2005

Not Employed

Participated in CollegeConfidential forums on STEM majors and careers.
Participated in WebmasterWorld and other Internet advertising forums with an emphasis on the implications of Internet architecture on advertising effectiveness.

1997-2004 AltaVista Company, Palo Alto, CA

Principal Software Engineer

Designed and developed web server traffic measurement tools in C, Perl, awk, and Unix shells.

Ported network utilities written in C from Tru64 (Digital) Unix to Linux.

Performed network engineering, QA, web server testing and design for AltaVista production infrastructure.

1995-1997 Digital Equipment Corporation, Palo Alto, CA

Principal Software Engineer

Designed and developed micropayment handler and MD5 module for Millicent e-commerce web server in Java under Windows NT.

Developed DNS configuration tools in C for Digital Firewall for Unix, and performed firewall network engineering and general software support.

1992-1995 University of California, Los Angeles, Ficus Research Group

Programmer/Analyst III

Systems programmer, configuration manager, and release engineer for Ficus, an NFS-based replicated network filesystem. Development of conflict resolution algorithms for partitioned file replicas and filesystem performance measurements. Programming was done in Perl and C.

1990-1992 Trusted Information Systems, Inc., Los Angeles, CA

Software Engineer

Software development in C for Trusted Xenix TCP/IP protocol stack. Projects included SLIP, ARP, and 3Com Ethernet driver development. Also performed configuration management.

As Los Nettos (regional mid-level network) site contact, supported Internet access, DNS, and other network engineering services for the TIS LA office.

1985-1989 SRI International, Menlo Park, CA

Software Engineer

Implemented Network Reconstitution Protocol (a precursor to Mobile IP) under 4.2 BSD Unix kernel in C.

Implemented Random Drop and Stochastic Fairness Queueing congestion avoidance algorithms in C for Cisco AGS router.

Designed and implemented RPC/SNMP-based network monitoring and management software in C to support location-transparent access to distributed databases.

1984-1985 Information Industries, Inc., Kansas City, MO

Systems Engineer

Contracted to Holmdel Computer Center, AT&T Bell Labs. Responsibilities included Unix systems administration, tuning, performance evaluation, programming, and USENET news administration.

Education

1992 University of California, Los Angeles

Masters, Computer Science

Studied queueing theory, graph theory, network analysis, algorithm analysis, and computability theory.

1984 Massachusetts Institute of Technology,
Cambridge, MA

Bachelors, Computer Science

Standard undergraduate computer science curriculum covering operating systems, programming languages, data structures and algorithms, software engineering, digital systems design, signals and systems, linear algebra, abstract algebra, and computability theory.