

DAVID M. OLAFSON

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Software Engineering Leader with a proven track record in architecture, development, and team building. Expertise in Java, C++, SQL, and Linux. Extensive experience in embedded systems, IP networks, telecom, home security, home automation, and the design and implementation of highly available cloud services.

DirecTV, ATT, ADT

Director of Software Engineering

6/13 – 1/24

- Led a team of 6 managers and over 90 software engineers – cloud, Android, iOS, web
- In the last 4 years, directed the hiring of over 20 team members.
- Led the LifeShield software team across several acquisitions and rapid growth.
- Architected a patent-pending solution for connecting mobile users to their home security network.

- Migrated server stack from JBoss to SpringBoot, and VM's to containers.
- Planned and executed multiple data center moves, including private cloud, AWS, and GCP
- Led or supported numerous transitions in DevOps tools and processes.
- Led our transition to a Continuous Deployment model: high quality production deploys every 2 weeks.

- SME on multiple projects, writing production code as recently as August 2023
- Updated our proprietary network protocols to use JSON over Websocket
- Improved API documentation and sequence diagrams
- Improved team performance by collecting metrics and setting goals.

LifeShield (InGrid)

Principal Software Engineer

12/09 – 5/13

- Designed / developed software for Life Safety (fire, burglary) and Home Automation (Z-Wave)
- Led a variety of software development tasks in a small startup company.
- Administered a highly available multi-tier production network.
- Replaced DB2/Gridscale with PostgreSQL, reducing cost and improving system uptime.
- Replaced home-grown messaging service with JMS, and after a few years, replaced JMS with Kafka
- Guided the outsourced development of iPhone and Android apps.

InGrid

Sr. Software Engineer

8/07 - 3/09

- Designed / developed software in C for a proprietary RTOS on a SC14429 chip with 2M flash.
- Designed / developed J2EE applications with JBoss, Hibernate, Spring, and JDBC.
- Architected / implemented an e-commerce solution, which the business used for over a decade.

TruePosition

Manager, Location Processing Software

1/05 – 7/07

- Managed a team of 12 C++ developers in U.S. and India
- Designed software for wireless location (AMPS, TDMA, GSM) over E5, Lbis, and Lb (SS7, SigTran)
- Supported a multi-process, multi-threaded architecture with High Availability and Fault Tolerance
- Trained junior staff in coding techniques; coached senior staff in software design and leadership roles
- Planned development activities for overlapping releases, on a 4 to 10 month cycle
- Automated build processes and software installation for Solaris, Linux, and VxWorks
- Led cross-functional teams across sales, requirements, software, test, documentation, and operations

TruePosition**Sr. Software Engineer, OSS/EMS**

- Led a team of 5 Java developers in U.S. and India
- Assisted in hiring, training, and code reviews
- Reviewed requirements, test plans, and customer documentation
- Performed system integration and troubleshooting for E-911 systems at Cingular and T-Mobile
- Designed/developed a FCAPS compliant NMS application in Java, with SNMP, HTTP, RMI, and SQL

Activate.Net**Sr. Software Engineer**

- Led a team of 5 C++ developers
- Designed/developed a Pay-Per-View service for streaming audio and video, in C++ on Windows NT
- Designed/developed an audio bridge for streaming media, using a H.323 Cisco VOIP gateway

Bridgeway Corp.**Sr. Software Engineer**

- Developed a patented system for Frame Relay network partitioning.
- Designed/developed a Java application to display the topology and status of a VPN
- Developed software tools to simulate large networks of Frame Relay and ATM switches
- Performed on-site installation and support at Pacific Bell (CA), ATT (NY), and NTT (Japan)

F5**Lead Developer**

- Designed/developed the 1.0 version of BIG/ip, a pioneering device for web server load balancing.
- Modified a BSD Unix kernel, bypassing the TCP/IP stack.
- Laid the groundwork for a company that now employs 6300 people with revenue of \$2.1 Billion / year

Computer Associates**Software Engineer**

- Developed and maintained Paradigm, a cross-platform trouble ticketing application in C++
- Ported the Paradigm UI from X11/Unix to Windows 95

University of CT**Research Assistant**

- Network admin on a 100 node Solaris network with several hundred users
- Taught an undergraduate course on the 8086 Assembly language, PC architecture, and O/S design
- Taught classes on Object Oriented design for PhD and post-doctoral researchers

Pratt & Whitney**Programmer/Analyst, CAD/CAM**

- Developed code for OPAL, an optimization algorithm for factory scheduling
- Rewrote OPAL's database I/O and heuristic procedures
- Created a batch processing mode for Unigraphics, the CAD system at Pratt & Whitney
- Contributed to a translator for Unigraphics and CATIA, the Boeing CAD system

EDUCATION

University of Connecticut, B.S. in Computer Science and Engineering

PUBLICATIONS

US Patent # 6,148,337:

Method and system for monitoring and manipulating the flow of private information on public networks.