

## Neal Taylor

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### PROFESSIONAL SUMMARY

A leader, problem solver and solution creator with experience guiding software developers by example creating, scaling and improving software systems through all phases from initial company creation through product end-of-life.

### TECHNICAL SKILLS

- Languages: C/C++, Python, Bash, Assembly, Java, and more
- Multithreading, concurrency and parallelism
- Linux driver back-porting
- Operating Systems: Linux, MacOS, Windows, Solaris, AIX, HP-UX, z/VM, ...
- GUI: Qt
- RTOS: SDEX/M

### PROFESSIONAL EXPERIENCE

#### Optifi Systems, Inc

2020 to Present

*Principal Software Engineer, Partner*

A startup creating business intelligence tools for finance companies.

- Collaborate with stakeholders to provide insights from existing data so they may focus improvements where they will provide the highest ROI.
- President and partner.

#### Consulting

2015 to 2020

*General Cyber, Austin Tx: Principal Software Engineer*

A startup working with streamed sensor data.

- Software developer for technical demonstration projects for measurements on streamed video data. Based on nginx, Python/flask and Qt.

#### CA Technologies, Inc - Irvine, CA (now Broadcom)

2010 to 2015

*Principal Software Engineer*

CA's AppLogic was an IaaS platform with orchestration capabilities.

- Technical liaison providing coordination between global organizations for the product port to the mainframe.
- Scrum master for primary scrum teams and member of the Scrum of Scrums.
- Contributed user stories
- Guided architecture for converting AppLogic from its internal fabric to running on other fabrics starting with OpenStack.
- Added new features including automatically migrating applications between x86 and Mainframe. (US Patent 9,201,606 awarded.)
- Back-ported thousands of kernel patches to allow older kernel versions supporting Xen to run on current hardware.
- Led project end-of-life activities.

**Apani Networks - Brea, CA****2010 to 2015***Lead Developer*

Apani's EpiForce product was enterprise class, end-to-end network encryption.

- Led a major re-architecture increasing end-node capacity by three orders of magnitude to 500,000 agents in a single domain as well as providing a substantial improvement in system availability.
- Encrypted packet payload at levels 2 and 3 of the network stack
- Recognized the product could be extended to provide policy based on users; including multiple users per machine, providing both a more intuitive interface and more secure product.
- Member of the cross-functional team providing the point of coordination for engineering to the rest of the organizations including, marketing, support, QA and executive management.

**Widevine Technologies, Inc. - Seattle, WA****2000 to 2001***Lead Developer***Senior Developer**

Widevine created a network streaming encryption product, since acquired by Google.

- Participated in the initial concept viability meeting where the team decided we had a novel solution to a market need. We went on to form a company, deconstruct the problem and create, implement and successfully deliver new capabilities to the marketplace.
- Led delivery of the initial two product releases.
- Created Linux kernel code to multiplex/demultiplex a side channel in the main data stream avoiding the need for additional firewall holes.
- Created a forum that successfully overcame the lack of informal communications channels in a geographically distributed team.
- US Patent 7,165,175

**Educational Background**

B.S. in Computer Science from California State University, Fullerton.

**Other Activities and Accomplishments**

Arranger and band member for local high school choirs.  
TS/SCI at Hughes Aircraft in the 90's