

Joshua Pressnell

Chief Technology Officer | Strategic Leader | Innovator and Inventor

A results-driven Chief Technology Officer with over 10 years of technology leadership and 23 years of software engineering expertise in the defense, mobile, and streaming video industries. I specialize in building high-performing, innovative tech teams that excel in collaboration and creativity. Known for fostering an inclusive, innovation-centered culture, I empower talent to explore transformative solutions that drive meaningful business impact. As a leader in intellectual property development, I hold 19 issued patents across five patent families, underscoring my commitment to pioneering advancements. By strategically aligning technology initiatives with business objectives, I focus on accelerating growth, enhancing operational efficiencies, and delivering exceptional customer experiences. Passionate about lifelong learning and emerging technologies, I inspire teams to embrace change and excel in a dynamic digital landscape.

Professional Experience

Penthera – New York, NY

Chief Technology Officer

Mar 2017 – Present

- Built and led a cross-functional team of 15 engineers, implementing Agile and DevOps practices to improve delivery cadence for mobile and Software as a Service (SaaS) products by over 50%.
- Cultivated an employee-focused innovation-driven culture and retained top tech talent, maintaining a near 0% employee turnover rate over 7 years.
- Led performance improvement program that improved scalability of SaaS offering to support millions of worldwide users and reduce cloud spend by over 60%.
- Led development of patented Ad-Supported Video On Demand (AVOD) revenue enhancement solution from inception through go-to-market.
- Successfully delivered mobile software used by Paramount, Starz, A&E, Globo, Liberty Global, and others.
- Developed an active intellectual property portfolio with 19 issued patents.
- As acting CIO, established a cybersecurity program and successful SOC2 review, enhancing client trust and safeguarding critical data.
- Drove technical process to certify Penthera as an AWS Partner Company.

iOS Development Lead

Nov 2012 – Mar 2017

- Architected and developed an Apple SDK for high performance secure video download to Apple products deployed to millions of devices worldwide.
- Collaborated with Product and Sales to align development initiatives with business objectives, leading to successive year-on-year revenue growth.

Ascendum Solutions – Cincinnati, OH

Principal Consultant

May 2011 – Dec 2012

- Managed and participated in a team of on-shore and off-shore engineers developing Android and iOS mobile applications for Ascendum customers.

Ricciardi Technologies, Inc (RTI) – Chantilly, VA

Director of Engineering, Standards, and Practices

Jun 2001 – May 2011

- Participated in government contracting efforts resulting in multi-year contract awards.
- As the Joint Program Manager for Information Systems (JPM IS) Enterprise Team Lead, developed common contracts language for software procurement for Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD) programs.

- As Technical Director for the JPEO-CBD Software Support Activity, led the development of common systems architecture, protocols, and standards for Chemical, Biological, Radiological, and Nuclear (CBRN) sensors and network systems.
- Successfully deployed CBRN sensor networks at 3 United States military bases.
- Successfully delivered and operated chemical weapons detection systems with the MA National Guard to protect the Boston Marathon, football games, and other high-profile events.
- Supported General Dynamics AIS in delivering multiple software modules for a next-generation Navy Electronics Warfare system.

Varietas Software, LLC

Owner

2008 – Present

- Developed and distribute an integration between the Control4 home automation platform and Apple's HomeKit.
- Developed and distributed several top-ranking mobile apps on the Apple App Store.
- Worked with the Hemophilia Federation of America to help women communicate more efficiently with their medical practitioners.

Education

Bachelor of Science in Computer Engineering
California Polytechnic State University - *San Luis Obispo, CA*

Core Competencies

- **Technology Strategy:** Business-Driven Tech Planning, Cloud Architecture
- **Leadership:** Cross-Functional Team Leadership, Talent Development, Program Management
- **Technical Expertise:** Software Development Lifecycle (SDLC), Cybersecurity, Data Analytics, Scalable Architecture, Real Time Systems
- **Innovation and Growth:** Product Development, SaaS Platforms, Operational Efficiency, Cost Reduction, IP Portfolio Development

Patents

“Commercials on Mobile Devices”

U.S. Patent No. 8701145, 8718445, 8923683, 8929717, 9621840, 10104357, 10616546, 11070780, 11418768, 11911489
Issued Apr. 15, 2014 – May 21, 2024

Systems and methods enabling increased revenue generation in downloaded ad-supported video.

“Video Streaming Systems and Methods”

U.S. Patent No. 11659259, 12096096
Issued May 23, 2023 – Sep. 17, 2024

Systems and methods for just-in-time video-on-demand ad insertion enabling increased revenue generation in ad-supported streaming video programs.

“Subsequent Look Media Presentation on a Playing Device”

U.S. Patent No. 11438675, 11653075, 12075137
Issued Sep 6, 2022 – Aug. 27, 2024

Systems and methods for just-in-time video-on-demand ad insertion enabling increased revenue generation in DRM-protected ad-supported streaming video programs.

“Presenting Media Items on a Playing Device”

U.S. Patent No. 11438673, 11546676, 11910071
Issued Sep. 6, 2022 – Feb. 20, 2024

Systems and methods to improve the quality of video presentation to users on devices operating within unstable networks.

“Downloading Media Objects”

U.S. Patent No. 9244916, Issued Jan. 26, 2016

Systems and methods to reduce network overhead and download times while downloading segmented streaming video content.

References

Available Upon Request