

Wesley Vance

Project Role: Senior Software Developer, Security Engineering, Analytics, Testing

Affiliated Organization: Nexant

Job Title: Senior Software Developer

Relevant Job Experience:

Mr. Vance is a skilled IT professional with over 23 years of experience in software development, system operations, system administration, system/infrastructure architecture design, and system integration. Throughout his career, Mr. Vance has solved problems involving high availability solutions and building scalable software solutions. His areas of expertise include Java, C++, C, PHP, Groovy, Perl, Bash/tcsh shell scripting, Oracle PL/SQL, MySQL, Node JS, Rust, Arduino, FORTRAN. He is also an expert in Linux/Windows system administration.

Significant Accomplishments:

Multiple Clients – Software Architecture and Development (2013–Present)

- Mr. Vance is a Senior Software Developer for the iHedge system. In his tenure at Nexant, Wesley has supported a variety of clients including MISO, CAISO, ERCOT, SPP, and EMS (NZ) projects with a focus on system integration, user interfaces, reporting, job scheduling, performance, scalability, and security. Wesley writes API (SOAP and JSON) for integrations with both ISO systems and market participants' software. He is skilled at writing test programs, verifying functionality, and solution accuracy. Wesley works closely with customers to understand their environment and their specific requirements; from this knowledge they collaboratively define product enhancements and infrastructure to meet the requirements defined by each project's goals.
- On an ongoing basis, Mr. Vance optimizes Nexant's iHedge FTR Market Simulator software for virtual machines like VMware's ESXi.
- He debugs and optimizes code with OpenMP and Intel's Parallel Studio. He also implements JAAS based security integration for multiple i-Hedge clients.
- Mr. Vance creates container-based cluster solutions utilizing Docker swarm. These solutions are load balancing and fault tolerant. He updates Nexant's software applications to be clustered within container systems. He creates Kubernetes cluster and deployments. He also deploys development and test systems to simulate production systems.
- Mr. Vance is responsible for the administration of the Grid Management group's development servers. This includes sizing, installing, configuring, and securing the servers both on premises and in the cloud. He creates install packages of Nexant software for customers.

Education: Education obtained via 23+ years of on-the-job activity

Professional Affiliations and Committee Memberships: None to report.