

**Summary** David has 30+ years architecting, designing and implementing IT solutions. A technical leader with the ability to develop and communicate the “big picture” of the technology into the implementation details. Typically adopting advanced technologies as part of a solution.



Specific areas of expertise are in cloud computing, distributed enterprise applications, high performance computing (HPC), network storage systems, relational database systems, multiple operating systems. Clients benefit from David’s mixture of Commercial Software development and IT Operations.

**Consulting Areas**

- Business and IT alignment
- Information Technology
- Semiconductor Electronics and Manufacturing
- IT Process Automation
- Database development
- API and Software design

**Expertise**

- Cloud Computing
- High Performance Computing
- Data center migrations
- Network Storage systems
- Scaling Databases and applications
- Data analytics
- AI/ML to optimize HPC resources
- Hybrid Cloud bursting
- Team Building & Performance Optimization
- Various Programming languages including Python, Perl and Java
- Multiple operating systems

**Industry Verticals Served**

High Tech, Semiconductors, Software, and Manufacturing

**Representative Experiences**

- Enterprise Architect at \$300 million fabless semiconductor company with offices worldwide; provided the technical leadership for IT Architecture and standards to meet company’s requirement, including security.
- Created, evaluated and implemented plans and design proposals for high-impact IT solutions and their use. Lead or contributed to designs applied to all aspects of systems, infrastructure and eventual implementation. Mentored others around the world.
- Developed Google cloud architecture to migrate systems to complete cloud hosting. This included High Performance Computing (HPC) implementation with an AI/ML engine to auto scale HPC jobs on demand. The AI/ML engine predicted and right sized cloud computing requirements. This solution supported dedicated and preemptive jobs.

**Past Employers**

Inphi Corporation, eSilicon Corporation, Zland Corporation, Sterling Software, Texas Instruments Inc.

**Education, Training & Certifications**

MS, Mathematics and Computer Science, Clemson University

BS, Mathematics with concentration in Computer Science, Western Carolina University

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