

Siyang Yang, Ph.D.

Technical Strategist & Senior Software Engineer

Owner and Manager of Bright Vision Abled Tech LLC

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PROFESSIONAL SUMMARY

Accomplished PhD-level Software Engineer and Cybersecurity Expert with over 20 years of experience in **Information Technology**, high-performance computing, and corporate-scale software architecture. As the Technical Lead for Bright Vision Abled Tech LLC, I specialize in delivering **secure, scalable, and legally compliant digital solutions** for government and enterprise clients. Expert in merging Information Security standards (ISC2) with inclusive systems design to ensure equitable access and robust data integrity. Proven track record in managing complex technical roadmaps, performing rigorous compliance auditing, and executing full-stack remediation to mitigate organizational risk and enhance digital infrastructure.

CORE COMPETENCIES

- **Enterprise Software Engineering:** Full-lifecycle development of corporate-scale applications, high-performance computing (HPC), and CI/CD pipelines.
- **Information Security & Cybersecurity:** Implementation of robust security protocols (ISC2) and data integrity measures for digital assets.
- **Compliance & Technical Auditing:** Expert-level auditing, risk assessment, and documentation to ensure adherence to federal and local regulatory standards.
- **Inclusive Systems Design:** Integration of "Accessibility by Design" and universal design principles for equitable digital access.

- **Data Science & AI Strategy:** Advanced expertise in Machine Learning (ML) research, Deep Learning operations, and large-scale data pipeline optimization.
- **Technical Project Management:** Strategic oversight of complex technical roadmaps, requirements gathering, and full-stack software remediation.

PROFESSIONAL EXPERIENCE

Bright Vision Abled Tech LLC | Houston, TX

Minority Owner (49%) & Technical Strategist | Jan 2025 – Present

- Directs all technical operations, including the selection of enterprise-grade diagnostic tools, software development frameworks, and rigorous testing protocols for digital infrastructure.
- Conducts comprehensive technical audits of complex software and web-based systems to ensure performance and regulatory alignment; authors high-level conformance reports and technical documentation.
- Manages the implementation of secure remediation code to maintain 100% compliance with federal and local standards.
- Serves as the lead Subject Matter Expert (SME) for all technical contract deliverables and high-level architectural oversight.

Shell Oil Company | Houston, TX

Senior Software Engineer | 2012 – Present

- Lead Architect for enterprise-scale data infrastructure, specializing in high-performance computing (HPC) and advanced analytics integration.
- Designs and deploys complex software solutions for global technical applications; architects high-capacity computing environments for large-scale data processing.
- Manages end-to-end software development lifecycles (SDLC) and secure CI/CD workflows for corporate-scale deployments.

- Awarded the **Shell VP Award for Technology (2020)** and three **Special Recognition Awards** for delivering innovative technical solutions resulting in multi-million dollar operational cost savings and increased system efficiencies.

Michigan State University | East Lansing, MI

Assistant Professor in Mathematics (Research & Development) | 2010 – 2012

- Lead Investigator for computational research and advanced mathematical modeling in a high-intensity R&D environment.
- Developed innovative algorithms and mathematical transforms for high-precision feature extraction and digital image processing; architected computational solutions for complex medical imaging diagnostics.
- Directed and mentored technical teams in the implementation of Machine Learning (ML) and Computer Vision methodologies for advanced data analysis.

Stanford University / SLAC National Accelerator Lab | Stanford, CA

Research Fellow (Computational Data Science) | 2008 – 2010

- Lead researcher for high-performance computational modeling and large-scale statistical analysis.
- Engineered advanced stochastic algorithms to accelerate complex wave equation simulations; performed rigorous hypothesis testing and predictive modeling for Big Data sets.
- Developed specialized computational frameworks to optimize data processing speeds and analytical accuracy in a high-security national laboratory environment.

EDUCATION & PROFESSIONAL CREDENTIALS

- **Ph.D. in Computational Sciences (Physics & Chemistry)** | University of California, Berkeley (2006)

- **B.Sc. in Computational Mathematics & Physics** | National University of Singapore (1999)
- **Certified in Cybersecurity (CC)** | ISC2

HONORS & AWARDS

- Shell VP Award for The Power of Technology (2020)
- Award for Best Paper Presented at the prestigious SEG Annual Meeting (2019)
- Shell Special Recognition Awards (2019, 2017, and 2015)
- Invited speaker for the Department of Energy (DOE) and the Defense Threat Reduction Agency (DTRA) on signal and image processing (2009, 2010)

TECHNICAL & Business REGISTRATIONS

- **Federal Employer ID (EIN):** 413419895
- **Unique Entity ID (UEI):** GY3ZQJ9KBQ73
- **D-U-N-S Number:** 14-291-5389
- **Texas Taxpayer ID:** 32103703362
- **Target NAICS Codes:** 541511, 541512, 541519, 541611, 541990
- **UNSPSC Codes:** 81111819, 81111500, 81111700, 81161501, 81112200