

# MURALI KALAVAPUDI

## Fractional CTO

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## EDUCATION

Bachelor of Engineering  
Civil Engineering  
Andhra University  
 1974 - 1979

Graduate Studies  
Civil, Environmental, Engineering  
University of Maryland  
 1981 - 1983

Special Courses  
Engineering Economics and  
Financial Analysis  
University of Maryland  
 1994 - 1995

## SKILLS

- Strategy & Implementation
- DevSecOps & Cloud Architecture
- Agile Transformation & Product Management
- Enterprise Architecture (TOGAF, Zachman)
- Data Analytics & Database Design
- Cybersecurity & Risk Management (CISM)

## CAREER OBJECTIVE

Visionary fractional executive with 30+ years driving AI/ML, data analytics, and digital transformation across engineering, IT, transportation, renewable energy, and industrial sectors. Expertise in DevSecOps, agile methodologies, enterprise architecture, cloud computing, and secure implementations. Deliver part-time C-level leadership to optimize operations, integrate engineering/IT systems, and accelerate AI adoption—achieving 20-30% efficiency gains and 25% downtime reductions. Certified in PMP, PRINCE2, SAFe, CISM, and TOGAF; passionate about sustainable innovation and measurable impact.

## WORK EXPERIENCE

### Fractional CTO & Principal Consultant Envirosys Technologies

 June 2021 - current  Washington D.C. Metro Area

- Led three integration projects for 5 renewable energy clients, employing data analytics tools to reduce operational costs by 25%.
- Led 15 cloud migrations, implementing Jenkins and Terraform for DevSecOps frameworks that cut deployment times by 20%.
- Managed 5 cross-functional experts to align IT and engineering strategies, achieving 15% reduction in project costs.

### Fractional Chief Transformation Officer & Senior Technical Advisor

#### Mason Harriman Group

 December 2019 - July 2021  Washington DC-Baltimore Area

- Led IT modernization and agile transformation across 3 teams, boosting efficiency by 15% using CI/CD pipelines and data analytics.
- Delivered compliance and budget oversight for 3 cross-functional teams, including executive-level reporting on progress.

### Fractional Chief Product Officer & Senior IT Transformation Leader

#### Deloitte US (AMTRAK)

 June 2016 - December 2019  Washington D.C. Metro Area

- Led agile product delivery for high-speed rail, incorporating ML automation to reduce downtime by 25%.
- Led a 10-person team managing product lifecycle; integrated IBM Watson to reduce incident response times by 15%.

### Fractional Chief Implementation Officer & Agile Consultant

#### Capgemini

 February 2016 - June 2016  Washington DC

- Developed AI/ML analytics tools that improved data-driven decision-making for 5 government clients, enhancing agile practices.

- Project Lifecycle Management (PMP, PRINCE2)
- Digital Transformation in Transportation & Engineering
- Cross-Functional Team Leadership
- Sustainable Renewable Energy Solutions
- Strategic Planning
- Budget Management
- Agile Methodologies
- Software Development Lifecycle (SDLC)
- Team Building
- DevOps Practices
- Data Analysis and Management
- User Experience (UX) Design
- Machine Learning and AI Integration
- Continuous Integration/Continuous Deployment (CI/CD)
- Business Process Improvement
- Change Management
- Vendor Management
- Stakeholder Engagement
- Risk Management
- Cybersecurity Best Practices
- Agile Best Practices

## Fractional Chief Engineering Officer & Digital Transformation Advisor

### Enterprise Information Services (EIS)

 October 2012 - February 2016

 Washington DC

- Oversaw PLM/SDLC for 85+ teams, integrating AI/ML in modernization and testing 180+ applications.

## CERTIFICATIONS

- Certified Information Security Manager (CISM)
- Project Management Professional (PMP)
- ITIL Foundation
- SAFe SPC (Scaled Agile Framework)
- TOGAF (Enterprise Architecture)
- Certified Scrum Master
- PRINCE2 Practitioner