

Chungman seo

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OBJECTIVE:

Seeking a professional position in the field of Interoperable System Design in SOA, a High Performance & Distribution Event System modeling and Simulation, and a Software Development with Data Engineering concept

EDUCATION:

University of Arizona, Tucson, AZ

Ph.D degree Dept of Electrical & Computer Engineering, expected in 2008

M. S, Chonbuk National University, Korea, 1999

Dept of Electrical Engineering

B.A, Kunsan National University, Korea, 1994

Dept of Control & Measurement

RESEARCH INTERESTS:

Discrete Event System Model & Simulation, Discrete Event System Model Verification, High Performance Distributed & Parallel Simulation, Net Centric Simulation & Verification Framework, Data Engineering, SOA(Service Oriented Architecture), Interoperable simulation through Web Services.

AWARDS:

Recipient of JITC's Golden Eagle Award (Highest civilian contractor award by US government) for project GENETSCOPE (Sept. 2006)

EXPERIENCE:

- **Research Engineer, July. 2004 – Present**
RTSync Inc., Phoenix, AZ
 - Systems Capable of Planned Expansion command generic network simulation model (GENETSCOPE) Project through the Northrop Grumman Information Technology (NGIT) contract to JITC Ft. Huachuca, AZ (Sep. 2005 – Present)
: An object-oriented discrete-event system modeling and simulation (M&S) environment to support simulation and analysis of voice and data communication scenarios for High Frequency Global Communication Systems (HFGCS)
 - Designed and Developed a User Interface of Systems Capable of Planned Expansion (SCOPE) command with Java
 - Designed data structure to support the User Interface
 - Integrated the user interface with abstract models
 - Designed and Developed an animation and chart displays with jfreechart source code
 - Net-Centric Enterprise Services (NCES) Operational Testing Support (2007 – Present)
: The task is to develop and deploy a prototype intelligent software agent (ISA) to support instrumentation for one or more NCES core services that will be tested in Developmental Testing, Operation Analysis and IOT&E that is supported by a core service WSDL
 - Developed a client side program with a monitoring capability using WSDL

- Developed Message Exchanger Java Object to XML using Java Architecture for XML Binding(JAXB) in the DEVS/SOA
- Data Strategy Engineering and Compliance Framework Project (Jun. 2006 – Present)
 - The primary goal of this task is to provide cost-effective testing capabilities that meet the requirements of JITC testers and customers
 - Developed a BPMN/BPEL(Business Process Execution Language) to DEVS(Discrete EVent system Specification) Model Converter engine
 - Developed an XML parser
- InterTEC (Interoperability Test &Evaluation Capability) Project (Sep. 2004 – Aug. 2005)
 - Implemented TENA(Test and Training Enabling Architecture) SDO (Stateful Distributed Objects) models
 - Installed TENA middleware
 - Programmed an SSEGW(Sensor Signal Emulation GateWay) over the TENA(Test and Training Enabling Architecture) middleware with visual C++
 - Programmed data conversion of SDO models to PDU(Protocol Data Unit)
- **Web Admin, August 2007 – Present**
Arizona Center for Integrative Modeling and Simulation (ACIMS), Tucson, AZ
 - Webmaster for www.acims.arizona.edu
- **Research Assistant, Aug. 2003 – June. 2004**
Arizona center of Integrated Modeling and Simulation (ACIMS)
University of Arizona, Tucson, Arizona
 - Designed the system architecture of a distributed modeling and simulation (M&S) framework over advanced distributed network systems (DEVS/ADNS) and built its reference implementation
 - Developed distributed M&S frameworks over numerous network middleware including P2P, GRID, MPI, and MOM
 - Researching interoperability simulation among the DEVS and others
- **Research Assistant, Jan. 2003 – June. 2003**
Speech, Language, & Hearing Dept. University of Arizona, Tucson, Arizona
 - Maintained Sun Solaris Servers
 - Installed some software in the Solaris machines
- **Mac venture company, Korea, 2001.5 ~ 2001.12**
Designed a micro-processor system and managed a web server

PUBLICATIONS:

Working papers:

Chungman Seo, Bernard P. Zeigler, “Web service integration with DEVS Modeling and Simulation approach”

Chungman Seo, MoonHo Hwang, Bernard P. Zeigler, “Processing Time Bounds of Schedule-Preserving DEVS using Temporal Logic”

Saurabh Mittal, Chungman Seo, Phil Hammonds, Bernard P. Zeigler, “Collaborative M&S Strategy for BPEL-DoDAF Architectures”

Conference papers:

Chungman Seo, Sunwoo Park, Byounguk Kim, Saehoon Cheon, and Bernard P. Zeigler, "Implementation of Distributed high-performance DEVS Simulation Framework in the Grid Computing Environment," 2004 Advanced Simulation Technologies conference (ASTC '04) -High Performance Computing Symposium 2004 (HPC 2004), April 18-22, 2004.

Saehoon Cheon, Chungman Seo, Sunwoo Park, Bernard P. Zeigler, "Design and Implementation of Distributed DEVS Simulation in a Peer to Peer Network System," 2004 Advanced Simulation Technologies conference (ASTC '04) – Design, Analysis, and Simulation of Distributed Systems Symposium 2004 (DASD 2004), April 18-22, 2004.

TECHNICAL REPORT:

Saurabh Mittal, Chungman Seo, GENETSCOPE Manual for JITC, Version 1.9.6, 2007

PROGRAMMING SKILLS:

Languages: C, C++, MPI, Java, JSP, PHP, ASP, C#, XML

Applications: MATLAB, Rational Rose (for UML), .NET, BPEL, AXIS2

Middleware: JXTA(P2P), GRID, MPI, TENA, J2EE

Operating Systems: Windows, Linux, and Solaris

REFERENCES:

Available upon request.