

Nish Sinha

SOFTWARE ENGINEER · SECURITY EXPERT

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"Ain't the world be so much better if we understood the second law of thermodynamics first"

Summary

- Over fourteen years of experience implementing distributed, multi processor and multicore systems to perform complex tasks in a efficient, failsafe, high availability manner.
- Strong background in theoretical approaches to design and implementation of computer based systems in server based architectures and embedded systems.
- Languages: Scala, Java, C++, C, Closure/Lisp, Python, Shells in Unices
- Systems: Writing realtime OS systems, Linux OS
- Tools: Latex, Excel, Matlab, Hadoop, Cassandra, Redis, Message brokers, Web frameworks, MySql, PostGresSql, Unit and Integration test methodologies, Asynchronpus processing, PowerPC, Arm

Education

Stanford University

M.S. IN ELECTRICAL AND COMPUTER ENGINEERING

CA, USA

IIT

B.S. IN ELECTRICAL AND ELECTRONICS ENGINEERING

Kharagpur, India

Experience

Xad Inc

STAFF SOFTWARE ENGINEER IN BACKEND

San Francisco, CA

Jul. 2015 - Current

- Implemented real time auction server in newer scala framework
- Architect engineer in cluster controller subsystem that provided distributed programming model with strong exception gurantees.

Emc Inc

STAFF SOFTWARE ENGINEER IN BACKEND

San Francisco, CA

Jan. 2015 - July. 2015

- Data Science and Analytics. A short term work in breaking ground for incorporating recommender system in storage usage analytics of content managemnt systems. Created experimental models and studied the suitability of approaches.

Synopsys Inc

STAFF SOFTWARE ENGINEER IN COMPILER OPTIMIZATION

San Francisco, CA

Dec. 2012 - Dec. 2014

- Major contribution in feature enhancement and management of optimizer engine of synopsys integrated circuits compiler.
- Recognized for new optimization goal implementation in the electromagnetic emission constraint optimization problem.

Nuance Inc

SOFTWARE ENGINEER IN MULTIMEDIA SERVING SYSTEMS

San Francisco, CA

Dec. 2010 - Dec. 2012

- Major contribution to bringing up new packet voice distributed processing system offered as SAS. Involved in conceptual design of backend architecture of server systems like load balancing, failsafe architectures.C++, Java

Ditech Inc

SOFTWARE ENGINEER IN MULTIMEDIA EMBEDDED SYSTEMS

San Francisco, CA

Apr. 2006 - Aug. 2008

- Major contribution in design of packet multimedia processing and control system in multi array processor system with colocated cores. The system needed to provide low latency and high bandwidth packet processing solutions to mobile phone networks.

Conexant Inc

FIRMWARE ENGINEER IN MULTIMEDIA EMBEDDED SYSTEMS

Redbanks, NJ

Apr. 2004 - apr. 2006

- Major contribution in implementing signal processing modules in DSL modem processors.Usage of acquisition and statistical techniques to decode data in dsl networks

Ittiam systems Inc

SOFTWARE ENGINEER IN MULTIMEDIA EMBEDDED SYSTEMS

Bangalore, India

Jul. 2001 - Mar. 2004

- Major contribution in design of real time scheduler and signal acquisition systems in PowerPC based architectures to implement telephony based modems.