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United States

Profile

Technology principal, specializing in applied cryptography, public key infrastructure and security architecture for connected embedded devices. Experience in technically building and grooming large teams to take a product/service from conceptualization/pre-sales to deployment.

I am also an independent researcher, collaborating with experts in academia, to publish research in area of machine learning applied to biology/medicine.

Research Experience

- Publications
  - Hierarchical Neural Cellular Automata,
    R Pande, D Grattarola
    Artificial Life Conference (ALife 2023) | Paper, Code, Talk

- Projects
  - Adaptive Traffic Signal Control using Deep Reinforcement Learning. Code

- Skills
  - Tensor Flow, Numpy, Python, Object Oriented Programming
  - Self-organizing systems, Neural Cellular Automata, Deep Learning, Deep Reinforcement Learning, Graph Neural Networks

- MOOCs
  - Coursera: Natural Language Processing Specialization
  - Coursera: AI for Medicine
  - Coursera: Mathematics for Machine Learning
  - Coursera: Deep Learning Specialization
  - Coursera: Reinforcement Learning Specialization

Professional Experience:

- Employment

Company	Designation	Duration
General Motors	Software Architect, Technology Lead	Oct 2021 – Till date
Capgemini Group/ Altran Group/ Aricent Technologies/ Hughes Software Systems	o Director Technology o Principal Systems Engineer o Senior Technical Lead o Technical Lead o Senior Software Engineer	July 2004 - Oct 2021
Wipro Technologies	Software Engineer	Oct 2002-July 2004
Innodata Information Technologies	System Engineer	Aug 2001 – Sept-2002

- Recent Projects
  - General Motors connected car infotainment.
  - NSN Femto Access Point
  - NSN Flexi-Edge BTS

- Skills
  - Security Architecture for embedded devices, Applied Cryptography, Public Key Infrastructure, Platform Security, Transport Layer Security, Android Security, Trusted Execution Environment, Secure Programming, Secured Onboard Communication.

  - Automotive Network Architecture, Vehicle Power Management, L2/L3 Switching

Leadership Experience:

- Experience in leading technical task force across multiple tier-1 suppliers and OEM teams to bring product features to fruition from their concept inception to deployment.
- Extensive experience in technically building and grooming large teams (largest team size being 45) in the area of IP transport, security and layer 2 switching and routing strategies.
- Deft at providing technical leadership across parallel projects, resolving interface issues across multiple subsystems.

Teaching Experience:

- Aricent Technologies: Organizational trainer for 'Debugging Skills'.
- General Motors: Organizational trainer for 'Security and Applied Cryptography Fundamentals'.

Educational Qualifications:

Bachelor of Information Tech. (1997-2001) Indraprastha College, Delhi University, India.

Awards and Achievements:

1 Certificate of Merit in National Mathematics Olympiad competition, 1995
2 Individual Employee Excellence award, Altran Group, 2008

Extra-Curricular Achievements:

1. 1st Degree Black Belt holder in ITF Tae-kwon-do
2. 1 Gold and 1 Silver in South Asian Tae-kwon-do Championships (ITF), Dec 2008
3 2 Gold and 1 Silver in National Tae-kwon-do Championships, Dec 2006
4 Completed Airtel Delhi Half Marathon ' 09 and '10

I hereby agree that the above information is true to the best of my knowledge and belief.

Ritu Pande