RUI ZHANG (PETER)

AI/ML and Networking

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EXPERIENCE

Lead Architect - AI/ML and Networking
09/2021 - Present

World Wide Technology
Cary, NC

- Awarded patent Network control in artificial intelligence-defined networking (US-11606265-B2)
- Lead a diverse team of six, comprising data scientists, software developers, and networking engineers, to develop AI applications
- Collaborate with UX/UI designer on 2 different projects, and translate designs to the team for implementation
- Manage the networking and compute infrastructure, supporting 8 data scientists and more than 20 developers
- Provide feedback to the product and engineering teams, and influence product direction
- Created more than 20 product documentations and architecture designs
- Reduced product and model testing time from hours down to minutes through automation in an isolated cybersecurity lab

Domain/Solutions Architect
08/2017 - 09/2021

World Wide Technology
Cary, NC

- Awarded engineer of the year reward for outstanding performance and innovations
- Improved project delivery efficiency by 40% and maintained 40% profit margin through lean process and automation
- Designed, planned and implemented 30+ ACI projects
- Published 3 technical white papers on WWT's platform
- Engaged in 80+ presale activities to build SoW and LoE for scoping projects
- Developed training materials and provide mentorship to a team of 25+ engineers and architects
- Created 4 new business offerings for ACI practice

System Engineer - Networking
12/2011 - 08/2017

Chemical Abstracts Service
Columbus, OH

- Maintained a data center network with over 80 different Cisco switches and
- Led a data center upgrade project, migrating over 2,500 servers across more than 80 switches with 8 firewalls and F5s to Cisco ACI, with minimal disruption to production
- Led a Network expansion project with over 60 ACI switches for an HPC environment
- Eliminated daily network maintenance window via network automation using Python and Ansible, saving 30 man-hours per month
- Spearheaded the migration of CAS' primary product to a dual-CDN configuration, utilizing both ChinaCache and Akamai, resulting in a 60% decrease in page load time

Affiliate Engineer - Network Operations
06/2007 - 12/2011

Verizon Business
Hilliard, OH

- Provide 24×7 network support for fully managed and unmanaged customers
- Utilize various tools and systems to troubleshoot Layer1 - Layer3 issues

EDUCATION

Bachelor in Electrical and Computer System Engineering
09/2003 - 05/2007

Rensselaer Polytechnic Institute

GPA | **3.3** / 4.0

ABOUT ME

With over a decade of experience in the networking domain with proficiency in automation and programmability.

Aiming to integrate AI/ML techniques to elevate user experience, championing innovation and fostering transformation throughout the industry.

DIVERSE SKILLS

⛓ IP Networking and SDN
Cisco ACI/NXOS, Network DC Design, Clos Fabric, CDN

💡 AI/ML
Gen AI/LLM, Reinforcement Learning, K-Means, Prompt Engineering

</> Network Automation and DevOps
Git/GitHub/GitLab, API integrations, Python, Bash, Ansible, CI/CD, DevOps

⚙ Virtualization
VMWare, vCenter, DVS, OVS, Docker, Linux

✎ Technical Writing and Content Creation
Technical publications, team documentations, JIRA, Confluence

🚀 Product Development
Agile, Startup, Team Lead, Product Management/Vision, Research

👥 Business and Personal
Leadership, Critical Thinking, Innovation, Communication, Self-Motivated, Autonomous, Teamwork and Collaboration

💬 Bilingual
English and Chinese (Mandarin)

CERTIFICATIONS

Cisco Certified Specialist DC Automation and Programmability

Cisco Certified DevNet Professional

Coursera - GenAI for Everyone

Coursera - GenAI with LLM