



📞 +91 - 8968360639

✉️ me@tapanbala.com

LinkedIn: tapanbala

## PROFESSIONAL SKILLS

- Strategic Planning & Execution
- Problem Solving
- Analytical Skills
- Leadership & Team Collaboration
- Innovation & Continuous Improvement
- Risk Management
- Adaptability & Learning Agility

# TAPANJOT SINGH BALA

## 🏆 SR. MANAGER SECURE WEB DEFENCE

Experienced Technical Solutions Engineer with extensive expertise in designing, implementing, and managing secure and scalable technology solutions across the financial and media sectors. Expert in cloud networking and network security protocols, with a strong background in deploying and managing cloud-based infrastructures.

## Work Experience

### STANDARD CHARTERED BANK

2021 - Present

- **Automation:** Led the design and development of automated deployment pipelines for Akamai CDN and WAF configurations, significantly reducing manual configuration time and minimizing human error.
- **Cloud Architecture:** Engineered hybrid cloud network architectures and collaborated on multi-team projects to enhance cloud service security and efficiency.
- **Observability:** Set up and monitored ELK stack and Grafana dashboards to track system performance and security metrics, automating alerts and reducing the need for manual monitoring.
- **Integration:** Developed and integrated solutions for SaaS CDN, WAF, and DNS providers, integrating Zero Trust principles and other advanced security measures.
- **Processes:** Automated routine processes and management tasks, leading to a 50% reduction in manual effort and a significant increase in process accuracy and speed.

### QUADX

2020 - 2021

- **XPAY:** Revamped the XPAY digital wallet platform, incorporating microservices to enhance functionality and integration.
- **Hybrid Cloud:** Managed the implementation of hybrid cloud and serverless computing environments, including container orchestration and CI/CD pipelines to streamline deployments, achieving a 70% reduction in business-as-usual (BAU) workload.
- **Cloud Networking:** Managed cloud networking configurations including VPCs, subnets, and security groups across AWS, Azure, and Google Cloud platforms.
- **Security:** Automated security compliance checks, which decreased the risk of non-compliance by 30% and enhanced overall security posture.

### AGILE MEDIA LAB PVT. LTD.

2016 - 2020

- **Risk Assessment:** Conducted comprehensive risk assessments with development teams to identify and mitigate security threats.
- **Optimization:** Led significant improvements in system performance, including a 60% reduction in page load times through CDN optimization.
- **API:** Developed secure, scalable RESTful APIs and implemented stringent application security measures.
- **Taskvalue:** Developed an automated workflow management platform for entrepreneurs.
- **Monitoring:** Automated the monitoring and scaling of applications, which increased system reliability during peak traffic periods.
- **Security:** Oversaw network security, implementing VPNs, SSL/TLS, and IPsec protocols to safeguard data transfers.

# LANGUAGES

- Python
- NodeJS
- Golang
- Javascript
- Java
- C/C++
- PHP
- Swift

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# ACTIVITIES

- Photography
- Cooking/Baking
- Traveling
- Hiking
- DIY Projects
- Gardening
- Chess

## OPENSOURCE

- **Async Tracer:** Node.js library for tracing async functions conforming to OpenTracing standards.

## TECHNOLOGIES

<b>Cloud Platforms</b>	AWS, Azure, Google Cloud
<b>Cloud Networking &amp; Infrastructure</b>	AWS VPC, Azure Virtual Network, Google Cloud VPC, VPC, Subnets, Security groups
<b>Network Security</b>	VPN, SSL/TLS, IPsec, Wireguard
<b>Load Balancing &amp; CDN</b>	Akamai, Imperva, Cloudflare, F5, Nginx, Squid
<b>Programming Languages</b>	Golang, PHP, JavaScript/Node.js, Python, C, C++
<b>Frameworks</b>	Symfony, Silex, ExpressJS, ES6, React, Redux, RESTful API, HTML, CSS, OAuth, JWT
<b>Databases</b>	MySQL, SQLite, DynamoDB, PostgreSQL
<b>Monitoring &amp; Analytics</b>	ELK Stack, Grafana
<b>Mobile Development</b>	React Native, Android (Java), Flutter, Swift
<b>Web Servers</b>	Apache, Nginx, Node.js
<b>DevOps Tools</b>	Docker, Kubernetes, Jenkins
<b>Security Technologies</b>	CDN, WAF, Advanced Bot Protection (ABP), DDoS Protection, API Security, Account Takeover (ATO)
<b>Others</b>	Vendor Management, Threat Modelling, Security Impact Assessments, Automation

## EDUCATION

**Bachelor's Degree in Computer Science & Eng.**  
**Punjab University**