



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, leading to 60% reduction of manual configuration time and minimized 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.

PROFESSIONAL SKILLS

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


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LANGUAGES

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

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ACTIVITIES

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

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:** Develop 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.

OPENSOURCE

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

TECHNOLOGIES

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

EDUCATION

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