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me@tapanbala.com
tapanbala

SKILLS

Experience in Engineering zero trust (ZTNA), Web Application Firewall, API Protection, DNS Security, Web Proxy, CDN, DDoS protection, Deception, Bot Protection & Browser Isolation. Experience in all phases of Software Development Life Cycle (SDLC) including requirement analysis, design, development, testing, delivery and troubleshooting.

TAPANJOT SINGH BALA

SR. MANAGER SECURE WEB DEFENCE

ABOUT ME

A versatile, high-energy technocrat with the distinction of executing prestigious initiatives that align with the strategic goals of the organization, all while identifying security threats and their mitigations.

Work Experience

STANDARD CHARTERED BANK

2021 - Present

- **WAF:** Analyse incoming attacks and create custom rules to mitigate the latest CVEs.
- **CDN:** Improve content availability and accessibility by leveraging vendor delivery networks.
- **DDoS:** Leverage Akamai Prolexic to mitigate DDOS attacks.
- **DNS Security:** Employing DNSSEC to achieve an additional layer of security by verifying authenticity of DNS responses.
- **Bot Protection:** Tweak and employ various bot mitigation techniques by evaluating user and application trends based on per App data flow.
- **AppSec:** Work with purple team while initiating Pentest exercises to identify potential security vulnerabilities and weaknesses.
- **Automation:** Automate multiple manual workflows to be user intervention free and less prone to errors.

QUADX

2020 - 2021

- **XPAY:** Revamped backend for digital wallet platform and allow for seamless integration via micro-services .
- **GOGO Express:** Reduce rider job reservation service latencies and revamped authentication layer.

AGILE MEDIA LAB PVT. LTD.

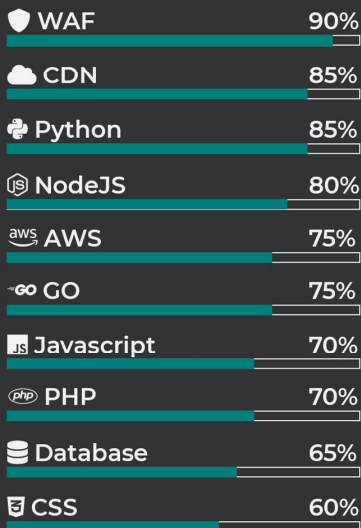
2016 - 2020

- **Risk Assessment:** Conduct deep-dive sessions with development teams and understand attack surface, threats, security controls and security design flaws.
- **Pageload Optimizations:** Highly optimized page load optimizations achieving 60% improvement utilizing CDN.
- **Microservice API:** RESTful API for decoupling the DB layer to achieve scalability using Domain Driven Design and prevent database security threats.
- **Application Layer Security:** Implement Access Control, CORS, etc., to mitigate vulnerabilities like CSRF and XSS.
- **Social Sharing Tool:** Fully Automated web Service to share blog articles on various social networking sites.
- **Sysadmin:** Web application management including deployment, tracking, reporting, metrics and load management. Overlooked application testing, code scanning, issue tracking, issue remediation.
- **Taskvalue:** Develop an automated workflow management platform for entrepreneurs.
- **Ecommerce:** Automatic affiliation handler for various e-commerce sites and Amazon product search integration in our next Gen CMS.



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OPENSOURCE

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

TECHNOLOGIES

Imperva	CDN, WAF, ABP, DDOS, API Security, ATO Protection
AWS Cloud	EC2, RDS, S3, CloudSearch, SNS, SQS, Lambda, Fargate, CDN, WAF
Akamai	CDN, WAF, Prolexic, BMP, GTM, Edge DNS, AHP, Cloudlets, ATO Protection
Programming Languages	Golang, PHP, Javascript/NodeJS, Python, C, C++
Web Technologies & Frameworks	Symfony, Silex, ExpressJS, ES6, React, Redux, RESTful API, HTML, CSS, Oauth, JWT
Database	MySQL, SQLite, DynamoDB, PostgreSQL
Mobile App	React Native, Android using Java
Web Servers	Apache, Nginx, NodeJS
Tools	Docker, Jenkins

EDUCATION

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