# Pawan Gambhir

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#### SUMMARY

Security researcher specializing in cloud security and penetration testing, with expertise in securing AWS environments and conducting vulnerability assessments

#### WORK EXPERIENCE

#### **Cloud Security Club**

June 2024 - Sept 2024

Security Researcher (AWS)

- Conduct root cause analysis on diverse AWS environments, resolving vulnerabilities to enhance security posture.
- Develop 15 intentionally vulnerable AWS labs using Terraform, educating 1000+ professionals on common misconfigurations and best practices.
- Author 10 technical blogs focusing on AWS security, covering topics such as vulnerability analysis, secure
  configuration practices, and threat mitigation strategies
- Research and implement new security measures to create secure AWS environments, reducing misconfigurations through preemptive strategies.

### **SKILLS**

AWS – IAM, EC2, CloudTrail, CLI, S3, SQS, SES, SNS, Route 53, VPC, RDS, CloudWatch, DynamoDB, Lambda etc.

**DevOps** – Docker, Docker-compose, Gitlab, Kubernetes, Terraform, Iac, CI/CD automation - Jenkins.

**Programming Languages** – Python, C, C++

**Scripting Languages** – Bash, Python

Security – OWASP 10, Pacu, Graphrunner, BurpSuite, Metasploit, Nmap, Cloud pentesting, Web Pentesting, Prowler

### **CERTIFICATIONS**

**AWS Certified Solutions Architect Associate** 

**Achieved June 2024** 

**AWS Certified Cloud Practitioner** 

**Achieved Dec 2023** 

#### TECHNICAL PROJECTS

### Paws-enum - AWS Enumeration script (Bash, AWS CLI)

• A bash script utilizing AWS CLI commands to enumerate IAM, S3, and EC2 resources, identifying security misconfigurations. Results are formatted and stored in a report file using 'jq'.

### **Svalbard** - Password manager & strength checker (Python, SQL, docker)

Python-based password manager and strength checker adhering to the latest OWASP policy, deployed via Docker.
 Encrypted with SHA256, passwords are accessible only with a master password.

## AWS Email Setup (SQS, SES, Lambda, IAM)

• Automated email processing using AWS SQS and Lambda for scalability and efficiency. Configured AWS, SES and IAM ensure secure, high-deliverability email management.

### AWS Three-tier Web Application (EC2, ELB, IGW, Aurora, IAM, VPC, SG)

• A secure, 3-tier architecture with public/private subnets, ELBs for multi-AZ traffic distribution and auto-scaling, and Aurora read replicas for high availability. Key AWS services like EC2, VPC, and ELBs are employed.

#### **EDUCATION**

### **Bachelor of Engineering, Computer Science Engineering (CGPA: 9.36)**

**Graduating: July 2026** 

Chitkara University, Punjab

Organizations/Awards: Dean's Toppers List, AWS C3 Captain, Cybersecurity Head of OSC.

#### ACCOMPLISHMENT

- Won first place in the HackExpo 2024 CTF, competing against 51 teams by solving challenges in enumeration, cryptography, binary exploitation, and web penetration testing.
- Chosen as one of 87 AWS Cloud Club Captains from a competitive pool of 1,200 applicants.
- Led a team of 6 members as Head of Cybersecurity at Open Source Chandigarh.
- Recognized by the university for identifying critical vulnerabilities, including a stored XSS resulting in 100% account takeover on their website, resulting in enhanced security measures.