

AYUSH SHARMA

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SUMMARY

Computer Science undergraduate specialized in Cloud (AWS) & cybersecurity. Built and evaluated AI-driven intrusion detection systems, an adaptive cloud firewall, and hands-on penetration testing skills across two research engagements. Comfortable across the AWS security stack (WAF, GuardDuty, IAM) and looking for an entry-level security or SOC/analyst role to apply that work in production.

EDUCATION

Bennett University, India

2022 – 2026

B.Tech, Computer Science — Specialization in Cloud Computing and Cybersecurity. CGPA: 8.0 / 10

SKILLS

- **Cybersecurity:** Penetration testing, network & web security, IDS/IPS, vulnerability assessment, threat mitigation
- **Cloud & Tools:** AWS (EC2, WAF, GuardDuty, CloudWatch, IAM, S3, Lambda), Burp Suite, Git/GitHub, Jira
- **Systems:** Kali Linux, Parrot Security, Metasploitable, Ubuntu, Windows
- **Programming & ML:** Python, C++, Java, JavaScript, SQL, TensorFlow, Keras

EXPERIENCE

Freelance Software Developer — GPI Industries Pvt Ltd

May 2026 – Present

- Built and deployed the company's e-commerce storefront (gpiptvltld.com) using React and Node.js, with JWT-based authentication, an admin management portal, and SEO-friendly server-side rendering for Google Search & Shopping visibility.
- Currently building a desktop POS, Accounting, and CRM system using React, TypeScript, Electron, Node.js, and PostgreSQL, with offline billing support and automatic data sync once the connection is restored.
- Designed an automated double-entry accounting engine that posts journal entries (receivables, payables, revenue, tax, inventory) directly from finalized invoices.
- Built a print-ready PDF invoicing system with GST/HSN breakdowns and thermal-printer support for point-of-sale hardware.

RESEARCH EXPERIENCE

Research Lead — AI-Driven Network Intrusion Detection & Cloud Firewall System Jul 2024 – Jan 2026

Advisors: Wg Cdr (Dr.) Ajay Kumar; Dr. Pradeep Kumar Arya

- Trained a Network Intrusion Detection System (NIDS) combining Transformer, BiLSTM, and CNN architectures (TensorFlow/Keras), reaching 97.1% accuracy in detecting DDoS, SQL injection, and other attack vectors.
- Extended the NIDS into AGESIFY, an AI-native adaptive cloud firewall, deploying the trained model with AWS WAF, GuardDuty, and CloudWatch for real-time detection and blocking of DDoS, SQL injection, and path-traversal attempts.
- Built self-optimizing mitigation logic and automated response protocols for port-scan and buffer-overflow attempts, reducing false positives through continuous traffic analysis and feedback-driven model updates.

PROJECTS

Cloud-Native E-Learning Platform (AWS)

Jan – May 2025 · [GitHub](#)

- Built a serverless platform (React, TypeScript, AWS Chime SDK, Lambda, DynamoDB, S3, Lex, Translate) with live HD video, an AI chatbot, and multi-language translation for up to 250 concurrent users.
- Applied enterprise-grade security controls for HIPAA-aligned handling of user data, with CloudWatch dashboards for ongoing monitoring.

CERTIFICATIONS & ACTIVITIES

- Jr Penetration Tester, TryHackMe — Credential ID THM-B5X1M1ZKEM (May 2026)
- AWS Certified Cloud Practitioner (May 2024, expires May 2027) [link](#)
- Sole student delegate, 2nd Annual DEF SEC 2025, Delhi — cybersecurity for defense (2025) [link](#)
- Presented research at IC3SE 2025, Amity University international conference on computing and security (2025) [link](#)
- The Bits and Bytes of Computer Networking (2024) [link](#)
- Introduction to Agile Testing (2024) [link](#)
- Member, Bennett University Cypher Club — cybersecurity initiatives (2023–2024)