ANAND RAJ PANDEY

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• github.com/anandrajpandey

SUMMARY

Cloud-focused developer with hands-on experience in AWS services and backend API design, specializing in building scalable, serverless, and cloud-native solutions. Proficient in Python, Node.js, and Java, with strong experience across AWS (EC2, S3, Lambda, DynamoDB, API Gateway) and Infrastructure as Code using Terraform. AWS Certified Developer Associate, with a strong focus on automation, security best practices, and reliable cloud deployments.

EDUCATION

B.E, Information Science   Graduating June 2026

8.5 CGPA
Dayananda Sagar Academy of Technology and Management affiliated with VTU

TECHNICAL SKILLS

Cloud Technologies: AWS Services, Terraform, Ansible, Docker, Kubernetes
Programming: Python, Java, C, JavaScript (Node.js, React), MySQL
Testing Skills: Security Testing
Certifications: AWS Certified Developer Associate (DVA-C02)

PROFESSIONAL EXPERIENCE

Association For Cybersecurity by Albus Security: Security Intern   September 2024 – February 2025

- Performed comprehensive vulnerability testing on a production-level web application, identifying, and documenting potential security flaws such as XSS, CSRF, and SQL injection, and reporting them for remediation as part of a 6-member cybersecurity team.

ACADEMIC PROJECTS

1. **Developed a traceroute-based anomaly detection system** using FastAPI and machine learning (Isolation Forest) to identify suspicious IP addresses and latency spikes. Utilized traceroute/tracert for network mapping, with Scikit-learn and NumPy for data processing, and implemented CORS middleware for secure API access.

2. **Designed and developed a decentralized bounty management system** on the Ethereum blockchain using smart contracts, allowing secure submission, tracking, and reward allocation for reported bugs in a transparent and trust less environment.

3. **Eye-Tracking Web Navigation –** Built a web app using WebGazer.js to track eye movements via webcam, enabling handsfree navigation and improving accessibility through real-time gaze-based interactions.

4. **Spearheaded the creation of a secure serverless file upload and download system** using Amazon S3 presigned URLs and AWS Lambda functions, handling large number of file transactions daily and reducing infrastructure costs.

CORE COMPETENCIES

1. AWS Cloud Computing and Development

2. Backend Development & API Design

3. Blockchain Development with Smart Contracts

4. Web Application Security and Vulnerability Assessment