

# CHINMAYA PRADHAN

## DEVOPS / CLOUD ENGINEER

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## PROFESSIONAL SUMMARY

Highly motivated and results-oriented DevOps/Cloud Engineer with hands-on experience in building and managing cloud infrastructure, automating development workflows, and implementing robust security practices. Proficient in Java Full Stack Development, Cloud Platforms (AWS, GCP, Azure), and DevOps tools like Docker, Kubernetes, Jenkins, Terraform, and CI/CD pipelines. Skilled in leveraging AI/ML to automate infrastructure monitoring and optimize system performance. Adept at handling large-scale deployments, securing cloud environments, and building scalable systems for modern applications. Committed to delivering high-quality solutions and driving continuous improvement.

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## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python, SQL
- **Web Development:** Java, JSP, Spring Boot, Python, JavaScript, HTML/CSS, React.js, Node.js
- **DevOps:** Docker, Kubernetes, Jenkins, Git, Maven, CI/CD pipelines
- **Cloud Platforms:** AWS, GCP, Azure
- **Databases:** MySQL, MongoDB, Firebase
- **Data Science:** Pandas, NumPy, Scikit-learn, TensorFlow, Jupyter Notebook
- **Version Control:** Git, GitHub, GitLab
- **Other Tools:** Terraform, Ansible, Linux, Bash scripting, REST APIs

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## PROJECTS

### 1. Cloud Infrastructure Security Automation

Developed an automated security auditing system for AWS cloud infrastructure to ensure continuous compliance and security posture management.

**Technologies Used:** AWS Lambda, Terraform, AWS CloudWatch, AWS Security Hub, Python, IAM, SNS

**Key Achievements:**

- Automated real-time monitoring with CloudWatch.
- Generated alerts for security policy violations and compliance issues.

### 2. Secure CI/CD Pipeline Implementation

Designed a secure, scalable CI/CD pipeline for microservices architecture, ensuring seamless and secure code deployments across development environments.

**Technologies Used:** Jenkins, Docker, Kubernetes, SonarQube, Nexus, Git, Helm

**Key Achievements:**

- Automated vulnerability scanning and security testing at each stage.
- Improved release frequency and minimized deployment risks.

### 3. AWS Cloud-Based Machine Learning Model Deployment

Automated the deployment of ML models using AWS SageMaker, with serverless endpoints powered by Lambda and API Gateway, enhancing model scalability.

**Technologies Used:** AWS SageMaker, AWS Lambda, API Gateway, Python, TensorFlow, Scikit-learn

**Key Achievements:**

- Deployed AI-driven recommendation system improving operational efficiency.
- Achieved real-time scalability for the ML model serving.

### 4. Multi-Cloud DevOps Automation with Terraform

Implemented automated infrastructure provisioning and scaling for both AWS and GCP environments using Terraform and CloudFormation.

**Technologies Used:** Terraform, AWS, GCP, CloudFormation, Ansible, Jenkins

**Key Achievements:**

- Reduced manual configuration errors and optimized resource management.
- Automated deployments and infrastructure monitoring across both cloud platforms.

## 5. AI-Driven Threat Detection for Web Applications

Built and deployed a machine learning-based system to detect and respond to web application threats in real time.

**Technologies Used:** *AWS S3, AWS Lambda, Python, Docker, Scikit-learn, TensorFlow*

### Key Achievements:

- Integrated automated threat response using Lambda.
- Improved system security and reduced the manual effort needed for threat detection.

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## RELEVANT COURSEWORK

- Data Structures and Algorithms
- Object oriented Programming
- Operating Systems
- Database Management Systems
- Cloud Computing
- Software Engineering
- Machine Learning & Data Science
- Data Mining and Big Data
- Computer Networks
- Distributed Systems

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## CERTIFICATIONS

- Amazon Web Services (AWS)
- Introduction to Linux
- Introduction to Blockchain
- DSA Using Java and C++
- Cyber Security Fundamentals
- Blockchain and Its Applications

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## ACHIEVEMENTS

- Finalist, Smart Odisha Hackathon (2022-23)
- Event Lead, GDSC (2023-24)
- Volunteer, GDG Bhubaneswar (2022-23)
- 2nd Rank, University's Entrepreneurship Project Competition (2023-24)
- Mentor for AWS Cloud and Java Training

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## Education:

**Silicon University, Bhubaneswar, Odisha, India**

*B.Tech in Computer Science and Engineering (2021-2025)*

CGPA: 9.22

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## INTERESTS

- New Technologies
- Traveling
- Fitness and Gym
- Food, Nutrition and Diet