

# MANUSREE GURIJALA

Canada | gmanusreeramu@gmail.com | (519) 830-0788

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## PROFESSIONAL SUMMARY

Software Development Engineer with 8+ years of IT experience building scalable cloud-native and distributed software systems. Strong background in backend and platform development using **Python, Java, JavaScript, and TypeScript** with hands-on experience across the full software development lifecycle — design, development, testing, deployment, and production support.

Proven track record delivering high-quality, secure, and performant software while collaborating cross-functionally with product, design, and platform teams. Passionate about engineering excellence, automation, reliability, and customer experience.

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## TECHNICAL SKILLS

**Programming:** Python, Java, JavaScript, TypeScript

**Frontend:** React, Redux, HTML, CSS

**Backend:** Node.js, REST APIs, GraphQL, Microservices

**Cloud & Platforms:** AWS (EKS, ECS, EC2, Lambda, VPC, RDS, DynamoDB), Azure

**Containers:** Docker, Kubernetes, Helm

**Infrastructure & Automation:** Terraform, AWS CDK, CloudFormation

**CI/CD:** GitHub Actions, Jenkins, AWS CodePipeline

**Databases:** DynamoDB, MySQL, NeptuneDB, RDS

**Observability:** CloudWatch, DataDog, OpenSearch

**Security:** IAM, IRSA, Secrets Manager, WAF, SSL/TLS

**Developer Tools:** Git, Jira, VS Code, PyCharm

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## PROFESSIONAL EXPERIENCE

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**Software Development Engineer – PayPal Sep 2025 – Present**

- Designed and implemented backend services and platform features supporting containerized microservices running on AWS EKS.
  - Built secure application integrations using IAM Roles for Service Accounts (IRSA) and AWS Secrets Manager for runtime credential management.
  - Developed automation workflows integrated into GitHub Actions to enforce security scanning and quality gates during build and deployment stages.
  - Implemented runtime container security scanning using CrowdStrike integrated into CI/CD pipelines.
  - Developed internal tooling and automation scripts in Python and TypeScript to improve deployment validation and operational reliability.
  - Collaborated with platform, security, and product teams to deliver production-ready features with strong focus on performance and scalability.
  - Performed root cause analysis on production issues and implemented long-term fixes to prevent recurrence.
  - Authored technical documentation and operational runbooks to improve team onboarding and system maintainability.
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## **Software Development Engineer – Cyient Feb 2024 – May 2025**

- Developed cloud-native backend services and APIs using Python, JavaScript, and serverless AWS services (Lambda, ECS, EC2).
  - Designed and implemented CI/CD pipelines using GitHub Actions and Jenkins with automated rollback and validation logic.
  - Built reusable infrastructure and service deployment modules using AWS CDK (TypeScript) and Terraform.
  - Developed containerized applications using Docker and deployed them through ECS and EKS clusters.
  - Implemented web security protections using AWS WAF and certificate lifecycle automation using ACM and Private CA.
  - Migrated artifact storage and delivery pipelines from Artifactory to Amazon ECR, improving system availability and performance.
  - Built monitoring automation and alerting systems for certificate expiry and service health.
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## **Software Development Engineer – Amazon Canada Oct 2022 – Jan 2024**

- Migrated enterprise platform services from legacy Policy 1.0 to Policy 2.0 using serverless and microservice architecture.
- Developed backend services using Python, Node.js, and AWS Lambda.
- Built APIs and data workflows using AWS Glue and event-driven architectures.
- Provisioned infrastructure using AWS CDK (Python) and CloudFormation.

- Built monitoring dashboards and service health metrics using CloudWatch and DataDog.
  - Automated deployments using Jenkins, CodeBuild, and CodeDeploy.
  - Implemented backup and disaster recovery strategies using AWS Backup.
  - Reduced incident recovery time by improving monitoring and deployment rollback strategies.
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## **Software Development Engineer – BITSAI Jan 2021 – Sept 2022**

- Designed and developed distributed backend services using Python and Java-based services on AWS.
  - Implemented infrastructure automation using Terraform and AWS CDK.
  - Built CI/CD pipelines for Java and Python applications using Jenkins and GitHub Actions.
  - Developed containerized services deployed via ECS.
  - Implemented secure networking architectures using VPC design and IAM policy enforcement.
  - Supported database systems including RDS and DynamoDB integrations.
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## **Software Development Engineer – Tata Consultancy Services May 2019 – Dec 2020**

- Developed backend systems using Python, Node.js, and MySQL for enterprise web applications.
  - Built serverless workflows using AWS Lambda and API Gateway.
  - Developed automation scripts and backend APIs supporting business workflows.
  - Implemented monitoring dashboards using CloudWatch and centralized logging systems.
  - Contributed to CyberArk cloud migration project improving enterprise security posture.
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## **Software Development Engineer – Cyient**

**May 2018 – Apr 2019**

- Developed backend services and AWS infrastructure using CloudFormation and CDK.
- Automated CI/CD pipelines using Jenkins.
- Containerized applications using Docker and deployed to ECS.
- Collaborated with business and product teams to translate requirements into technical solutions.

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## EDUCATION

### **Master of Science – Computer Science**

Lakehead University, Thunder Bay, ON

### **Bachelor of Technology – Computer Science & Engineering**

JNTU, Hyderabad, India

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## CERTIFICATIONS

AWS Certified Developer Associate

Microsoft Technology Associate – Database Administration

SQL Developer Professional

Core Java Certification