

# GADIDAMALLA THANGELLA

**Generative AI / Prompt Engineer | LLM Applications**

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Portfolio: <https://thangella-portfolio.vercel.app/>

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## PROFESSIONAL SUMMARY

Computer Science graduate (2024) with expertise in Generative AI and Prompt Engineering. Skilled in designing, testing, and deploying LLM-powered applications, with experience in on-device AI systems, semantic & sentiment-based retrieval, and zero-latency prompt optimization. Experienced in integrating LLM APIs into scalable cloud environments (AWS, Docker, Kubernetes) and automating workflows for AI application deployment. Seeking Prompt Engineer roles to develop production-ready AI systems that are efficient, reliable, and ethically designed.

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## CORE TECHNICAL SKILLS

### Generative AI:

Prompt Engineering (CoT, Few-Shot), GPT-4, Gemini, LLM API Integration, AI Debugging

### Programming Languages:

C#, Python, JavaScript (ES6+), TypeScript, C/C++, Java

### Frameworks & Runtime:

React, Node.js, Vite

### DevOps, Deployment & IaC:

Terraform, Jenkins, Git, GitHub, Maven, Docker, Kubernetes, Ansible, Argo CD, Nexus, CI/CD, Vercel

### Cloud (AWS):

EC2, S3, IAM, RDS, VPC, ALB, EBS, AWS CLI, CloudWatch

### Databases & Operating Systems:

SQL, MySQL, Linux (Ubuntu/RHEL), Shell Scripting

### Monitoring & Observability:

Prometheus, Grafana, CloudWatch

## KEY PROJECTS

### 1. AWS DevOps CI/CD Pipeline with Blue/Green Deployment

**Tools:** Terraform, Jenkins, Maven, CodeDeploy, EC2, S3

- Automated AWS infrastructure provisioning with Terraform integrated into Jenkins (pipeline-as-code).
  - Built CI/CD workflows for Java microservices covering build, test, versioning, and deployment stages.
  - Implemented Blue/Green Deployment enabling zero-downtime releases and safe rollbacks.
  - Achieved a 2.5x increase in deployment frequency and reduced manual effort by 60%.
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### 2. Kubernetes Cluster Deployment with Observability

**Tools:** Kops, Docker, Helm, Prometheus, Grafana

- Provisioned a multi-node Kubernetes cluster using Kops on AWS.
  - Containerized applications with Docker and deployed scalable workloads using Helm charts.
  - Integrated Prometheus and Grafana for metrics, dashboards, and alerting.
  - Improved cluster visibility by instrumenting over 5 critical performance metrics.
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### 3. Rewind-It – Privacy-First AI Memory Journal (On-Device LLM)

**Tools:** React, TypeScript, Local LLM APIs

- Engineered optimized system prompts achieving 95% accuracy for on-device tag generation.
  - Built an offline-first architecture ensuring 100% local inference and data privacy.
  - Implemented semantic and sentiment-based “Daily Flashback” retrieval using LLM-driven logic.
  - Demonstrated edge AI deployment and ethical AI data handling best practices.
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### 4. Code Craft Toolkit – Developer Automation Suite

**Tools:** Vite, TypeScript, Node.js

- Developed utilities for code merging, diff visualization, and automatic language detection.

- Built workflow automation tools to enhance developer productivity and reduce repetitive tasks.
  - Demonstrated strong experience in frontend tooling and backend scripting.
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## ADDITIONAL PROJECTS

Full project list: <https://thangella-portfolio.vercel.app/>

Other notable projects include:

- Listeners – AI Chatbot / Empathy Platform
  - INVALSER – Premium Service Marketplace
  - Game Spot – Ad-free Gaming Platform
  - Lifespan Estimator – Health Tech Tool
  - Reel Revival – Private Film Screenings Platform
  - Need2Fix – Smart Service Marketplace
  - CineLaunch – Filmmaker Crowdfunding Platform
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## EDUCATION

### B.Sc (Honors) in Computer Science

Backstage Pass Institute of Gaming, Hyderabad | 2024

### Intermediate (MPC)

Sri Gayatri Junior College

### SSC

Lotus Lap Public School

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## LANGUAGES

- English: Professional Proficiency
  - Hindi: Conversational
  - Telugu: Native
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## INTERESTS

Automation Tools, Cloud and AI Innovation, DevOps, Generative AI, Entrepreneurship, Exploring & Learning, Writing