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Professional Summary

Full-stack developer delivering production web apps with React/Next.js and Node/Python. Strong DevOps on AWS (IAM, EC2, VPC, Load Balancer, S3, Lambda, ECR/ECS, CodePipeline) with Docker and CI/CD for scalable, reliable delivery. Proficient across front-end (HTML, CSS, TypeScript, React), back-end (Node.js, Flask, Django), and databases (MongoDB, PostgreSQL, Supabase, Firebase); experienced integrating AI features into user-facing products.

Education

Usha Rama College of Engineering and Technology

Dec 2021 – May 2025

BTech in Artificial Intelligence and Machine Learning

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Structures and Algorithms, Web Development, Database Systems

Technologies

Front-End: HTML, CSS, JavaScript, TypeScript, React.js

Frameworks & Libraries: Node.js, Next.js, Vite, Tailwind CSS, Bootstrap, Create React App, Flask, Django

Programming Languages: Python, Java, C, JavaScript

DevOps: Linux, AWS (IAM, EC2, VPC, Load Balancer, S3, AWS CLI, Lambda Functions, CloudWatch, CodeBuild, CodeDeploy, CodePipeline, ECR, ECS), Docker, Git/GitHub

Databases: MongoDB, PostgreSQL, Supabase, Firebase

Experience

GGG INFORMATION SERVICES

Dec 2024 - Jan 2025

Machine Learning Intern

- Contributed to the '3D Optimization' project, converting 2D engineering diagrams into precise 3D models
- Implemented 2D Image-to-3D model generation system

Projects

WebMind - AI-Powered Web Search Assistant

Tech Stack: Next.js 14, React, Tailwind CSS, Together AI API (DeepSeek/Llama), Brave Search API, Cheerio, Vercel

- Built an LLM-powered search assistant combining DeepSeek/Llama with real-time web results
- Implemented streaming APIs on Next.js for responsive, serverless delivery
- Added query optimization and transparent reasoning via lightweight web scraping

Idea Evaluator - AI Business Analysis Tool

Demo: <https://idea-evaluator-beryl.vercel.app/>

GitHub: github.com/hxbeeb11/idea-evaluator

Tech Stack: Next.js 14, React, Tailwind CSS, Framer Motion, Google Gemini Pro AI, Node.js, Nodemailer, QuickChart API

- Shipped an AI tool using Google Gemini Pro to evaluate business ideas with structured reports
- Generated charts with QuickChart and delivered a responsive UI with Tailwind/Framer
- Exposed secure REST APIs for AI orchestration and data processing

PromptVision - AI Chatbot & Image Generation Platform

Demo: <https://prompt-vision.vercel.app/>

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Clerk Authentication, Cohere API, Stability AI, Framer Motion, Shadcn/UI

- Built a dual-AI app: Cohere chat + Stability AI image generation in one interface
- Implemented Clerk auth with role-based access and JWT; type-safe TS codebase
- Delivered polished UI using Shadcn and Framer Motion

GATE AI - Advanced Adaptive Learning Platform

Demo: <https://gate-ai.onrender.com/>

GitHub: github.com/hxbeeb11/gate-ai

Tech Stack: Python, Flask, HTML/CSS/JavaScript, BERT, Together AI/OpenAI APIs, Supabase, Render, Gunicorn

- Built an adaptive GATE prep platform powered by BERT and fine-tuned LLMs
- Implemented dynamic difficulty progression and explanatory question generation
- Delivered a scalable Flask REST API deployed with Gunicorn

Secure, Scalable Multi-Availability Zone Application Deployment on AWS (Custom VPC Architecture)

Tech Stack: AWS VPC, EC2, Auto Scaling, ALB, Bastion Host, NAT Gateway, Public/Private Subnets, IAM, Security Groups, CloudWatch

- Designed a two-AZ VPC with isolated public/private subnets and Auto Scaling in private subnets for fault tolerance and scalability
- Configured a bastion host for secure SSH to private EC2 instances and deployed an ALB to route traffic to private apps
- Enabled NAT-based egress for private instances, enforced IAM/Security Groups, and added CloudWatch logging/monitoring

Automated CI/CD Pipeline with AWS CodePipeline & Docker

Tech Stack: AWS CodePipeline, CodeDeploy, EC2, Docker, GitHub, DockerHub, CodeDeploy Agent

- Implemented a CodePipeline triggered by GitHub commits to automate builds and deployments
- Built Docker images and pushed to DockerHub for centralized storage and versioning
- Used CodeDeploy (Agent on EC2) to pull and run the latest container image for consistent releases

Two-Tier Application Deployment on AWS

Tech Stack: AWS EC2, VPC, Bastion Host, Security Groups, IAM, CloudWatch

- Deployed a two-tier setup: frontend on a public EC2 and backend on a private EC2 within one VPC
- Configured the public EC2 as a bastion host for secure SSH access to the private backend
- Applied restrictive Security Group/IAM policies and enabled CloudWatch monitoring for insights