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A Full Stack AI Developer with 4 years' experience building scalable web apps and integrating Generative AI (LLMs, RAG, agents). Skilled in React, Next.js, Node.js, NestJS, and Python (FastAPI). Experienced with Azure, GCP, AWS, LangGraph, LangChain, CopilotKit, and OpenAI APIs, delivering AI-driven automation and responsive UIs with Tailwind, Bootstrap, and Material UI.

TECHNICAL SKILLS

- Front End Tech: ReactJS, NextJs.
- Back End Tech: NodeJS, Express JS, NestJS, Python(FastAPI).
- Database: *PostgreSQL* UI Libraries & CSS: Fluent UI, Tailwind CSS.
- Web Plat Form: SharePoint Scripting Languages: JavaScript, TypeScript.
- DevOps:Docker, Kubernetes,HelmCharts,PM2, CI/CD Pipelines.
- AI and Automation Tools: OpenAI APIs, Knowledge of MLOps, LLM Models (Grok-beta, ChatGPT-4.0 mini).
- LangGraph, Copilokit Tools: GIT, Visual Studio Code, Swagger UI, NATS.

LEARNINGS/CERTIFICATIONS

- Trained in complete software engineering and end-to-end SDLC process. Received professional training and workshops on React and related skills.
- Received professional training and POC implementations on SharePoint and Power Platform.

CONNECT

- Connect with me on LinkedIn or read my technical blogs on GitHub.

EDUCATION

- Bachelor's Degree MECH from Jyothishmathi Institute of Technology & Science with a score of 73.5% (2017-2021)

EXPERIENCE SUMMARY

- Around **4 years of experience** in full-stack development and DevOps, delivering dynamic and 4+ scalable applications across diverse domains. Developed user interfaces using **React JS and Next JS** for projects including a gaming platform and a global client project, focusing on responsive designs and seamless data integration to enhance user experience.
- Developed an **AI-driven** application to automate DevOps and **Dev-Ops workflows** using **OpenAI APIs, LangGraph, CopilotKit, Grok-beta LLM**, and **NATS**—auto-generating Docker files, Kubernetes YAML files, Helm charts, and CI/CD pipeline scripts. Built and integrated **Dev-Ops GPT on GCP** to create artifact repositories, build and deploy Docker images, and set up CI/CD pipelines using Cloud Build and GitHub triggers.
- Engineered **Node.js** applications to manage real-time data ingestion from **MQTT** and **WebSocket** streams, prioritizing modularity, code quality (**ESLint, SonarLint**), and performance optimizations (**code-splitting**) for clinical platforms.
- Enhanced **API documentation by customizing Swagger UI on Kong's developer portal** and published custom themes on **npm** to improve accessibility for developers.
- Led **SharePoint** projects and developed custom SharePoint web parts using **SPFX**.
- Built **RESTful APIs with Nest JS** for multi-tenant SaaS platforms and managed Kubernetes pods/services using **Helm charts**, with namespace-based configurations for better isolation and management.
- Learned and used **Docker and Kubernetes**, managing containerized applications using **Kubernetes-client-node** in Node.js and automating deployments via **YAML** configurations and **Docker files**. Delivered an enterprise-grade GenAI analytics platform for Marriott India using **Next.js** and **Gemini AI**, enabling hotel managers to gain actionable insights from customer reviews. Implemented secure **SSO** authentication using **NextAuth** with **Google OAuth**, enhancing access control for client-facing applications.

HIGHLIGHTS – STRENGTHS – ASPIRATION

- Improved app performance by 30% using server-side rendering with Next.js and code-splitting.
- Enhanced data processing by 40% via optimized real-time Node.js pipelines in clinical platforms.
- Delivered 25% faster API integration by customizing Kong API Gateway and Swagger UI themes.
- Proven expertise in building LLM-integrated GenAI solutions, chatbots and analytics dashboards.
- Committed to continuous growth in AI-first engineering, cloud-native development, and scalable architecture leadership.

CURRENT PROJECTS

Project Name: AI-Powered Cokpit AI Agent | **Role:** Full stack Developer | **Team Size:** 8 | **Technologies:** Next.js, Python (Fast API), GenAI (LLM-based), Next.js, Python (FastAPI), GenAI (LLM-based), CopilotKit, Bitbucket, GitHub, GitLab, Jenkins, DaisyUI, AWS S3 | **Description:** Developed an AI- powered DevOps assistant platform that connects with tools like Bitbucket, GitHub, GitLab, Jenkins, and JIRA. The system automates repository management, simplifies tool integrations, and uses Generative AI to provide smart code insights, automation suggestions, and real-time analytics for developers.

Key Contributions:

- Designed and implemented Bitbucket integration using MCP, supporting repository listing, pull request creation, and automated branch merges (prod → dev).
- Developed a custom web search tool using trusted sources (e.g., DuckDuckGo) to fetch filtered, reliable data for LLMs and improved performance through lazy execution.
- Created FastAPI-based integration handlers and defined OpenAPI specs for systems like GitHub, GitLab, and Bitbucket to standardize workflows and API communication.
- Built responsive UIs with Next.js, DaisyUI, and Highcharts to visualize GenAI insights, with features like context saving, file uploads to AWS S3, and dynamic model selection (OpenAI, Anthropic, Google).
- Integrated CopilotKit hooks and knowledge base tools to deliver real-time AI suggestions, automate DevOps workflows, and enhance developer experience across multiple integrations (JIRA, Jenkins, etc.).

PERAM MANASA (Full Stack AI Developer)

WORK EXPERIENCE

- Zelarsoft Pvt Ltd | Software Engineer | Oct'22 – Present
  Business Intelli Solutions | Technical Recruiter | Aug 2021 - April-2022

Key Achievements:

• Gained comprehensive training on **Software Engineering**, **full-stack development**, **Cloud, DevOps, SharePoint**, strengthening both technical and soft skills.

• Mastered full-stack technologies including **ReactJS, NextJS,** and **NodeJS** for building scalable applications.

• Gained proficiency in **containerization** and **orchestration** using **Docker, Kubernetes**, and **Helm**, enhancing deployment and scalability knowledge.
Enhanced knowledge of platform customization, especially in **Kong API Gateway**, improving developer experience and integration processes. Learned and developed an AI-powered bot using **Node.js** and **OpenAI APIs**, gaining skills in automation and DevOps configuration.

• Learned and worked on **LLM model** for machine learning operations (**ML-Ops**).

• Gained experience in building
GenAI-based analytics platform, enhancing AI integration and dashboarding skills.

• Strengthened frontend skills by implementing interactive dashboards and **SSO** using NextAuth with Google OAuth.

• Expanded **LLM** knowledge by integrating **OpenAI-based chatbot** for dynamic, query-driven insights.
• Deepened **DevOps** and **MLOps automation** expertise through **LangGraph** and **CopilotKit** for infrastructure and pipeline generation on GCP.

PERSONAL DETAILS

Languages Known: English and Telugu

Nationality: Indian

Project Name: DevopsGPT | **Role:** Lead Developer | **Team Size:** 6 | **Technologies:** Node.js (v1),Python (v2), Lang Graph, CoPilot Kit, NATS, OpenAI, Next.js, GCP (Big Query, gsutil, Cloud Build), PostgreSQL (via Prisma ORM) | **Description:** An AI-powered DevOps assistant leveraging LLMs to automate the generation and execution of DevOps and MLOps workflows. Version 1 utilized Node.js for backend services, while Version 2 refactored using Python with LangGraph and CopilotKit for advanced streaming LLM interactions. Integrated with NATS messaging for real-time operations and GCP tools for infrastructure automation.

Key Contributions:

- Developed backend (v1) using **Node.js** and **OpenAI APIs** to auto-generate DevOps artifacts—Docker files, Kubernetes manifests, Helm charts, and CI/CD scripts—from Git repositories. Refactored the backend (v2) using **LangGraph (Python)** to support modular, tool-based orchestration with improved LLM control flows.
- Integrated **Copilot Kit** in the frontend for **real-time LLM** streaming responses, enhancing interactivity and responsiveness.
- Built efficient NATS messaging workflows to automate Git operations via frontend-triggered LLM actions.
- Built custom backend tools for **GCP operations**, including: gcloud command execution , gsutil for storage management , **Big Query** integration for data operations.
- Implemented **RAG (Retrieval-Augmented Generation)** to dynamically fetch and serve artifact.
- Developed and integrated **Dev-Ops GPT** to automate the entire ML lifecycle, including artifact repository creation, Docker image build and deployment, CI/CD setup with Cloud Build, service deployment, and GitHub-triggered pipeline execution.

PREVIOUS PROJECTS

ProjectName: FASTVDI | **Role:** Developer | **Team Size:** 15 | **Technologies:** NextJS, NestJS, Docker, Kubernetes, HelmChart, Prisma, PostgreSQL. | **Description:** Developed an application for creating and managing Virtual Desktop Infrastructures (VDI) using modern technologies. **Key Contributions:** Developed a scalable Virtual Desktop Infrastructure (VDI) application using NestJS, NextJS, Kubernetes, and Helm Charts, including a Domain API for seamless organizational data interactions, real-time backend communications via **webhooks**, automated pod creation, and secure credential management. Improved system security, responsiveness, and resource allocation by managing isolated Kubernetes namespaces and assigning unique service IPs to pods.

Project Name: Aura EGaming | **Role:** Developer | **Team Size:** 12 | **Technologies:** NextJs, NodeJs, Big Query, Virtual Machine, MQTT, WebSockets | **Description:** Developed a dynamic gaming platform for an international client, offering diverse gaming solutions to enhance player engagement. **Key Contributions:** Developed and maintained responsive user interfaces for gaming applications using **Next.js** and Tailwind CSS; engineered **Node.js** applications to handle real-time data ingestion via **MQTT** and **WebSocket**, optimizing performance and scalability; created and optimized data pipelines for efficient transfer of gaming data to **BigQuery**; and deployed applications on **virtual machines** using **PM2** to ensure high availability for real-time data analytics. Made **REST API calls** and optimized data retrieval.

Project Name: Strike Money | **Role:** Developer | **Team Size:** 5 |
Technologies: NextJS,ReactJS,HTML, CSS, TailwindCss, Strapi | **Description:** Built a dynamic CMS using Strapi for managing stock market-related content. Integrated LLM for real-time query processing and data fetching, ensuring seamless front-end display and smooth user interaction.

Key Contributions: Developed scalable backend in Strapi for dynamic page creation and management
Integrated LLM for real-time stock market data retrieval
Built APIs for seamless front-end and back-end communication
Ensured high performance, fast response, and smooth user experience

P roject Name: CDDP - Celito drug development platform | **Role:** Developer | **Team Size:** 30 |
Technologies: ES Lint, SonarLint | **Description:** Contributed to a cloud-based solution for managing clinical and quality processes in the life sciences industry.

Project Name: Intranet Portal | **Role**: Developer | **Team Size:** 15 | **Technologies:** SharePoint & SPFX, Power Automate, ReactJS | **Description:** Developed a role-based Intranet portal using SharePointand SPFx,enhancingemployee access toorganizationalresources.

Project Name: Recruitment Management | **Role:** Technical Recruiter | **Duration:** Aug 2021 – Apr 2022

Tools: LinkedIn, Job Portals, Excel | **Description:** Managed full-cycle recruitment for tech roles, including sourcing, screening, scheduling interviews, and coordinating with managers to ensure smooth and timely hiring.

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