Sandip Deshmukh *Senior Software Engineer*

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⌕ Github 🔗 Website ◆ Hashnode ▶ YouTube

Summary

Versatile Generative AI Engineer with 4+ years of experience in full-stack development and AI-driven solutions. Skilled in React.js, Next.js, Python, and Azure Functions, with hands-on expertise in building LLM-powered applications using OpenAI APIs, LangChain, and Vector Databases. Experienced in deploying scalable AI systems with Azure Functions, Cosmos DB, Azure Cognitive Services, and Azure Storage. Proven track record of delivering projects involving AI avatars, custom neural voice, and RAG pipelines.

SKILLS

Programming: JavaScript │ Python

AI & Tools: Large Language Models (LLMs) │ Azure Cognitive Services │ Custom Neural Voice │ Voice Cloning Tools │ Image Models │ LangChain │ LangGraph │ LangSmith │ LangFuse │ MCP Server │ n8n (workflow automation) │ Photoshop API │ Firefly Services

Memory & Vector Stores: Azure AI Search │ Qdrant DB

Databases: Cosmos DB │ MongoDB

VR / 3D: Meta Quest (Oculus) │ VR App Development

Frontend: React.js │ Next.js │ TypeScript │ Tailwind CSS │ HTML5 │ CSS3 │ Material UI │ Bootstrap

Backend & API: REST APIs │ Azure Functions │ Node.js │ Express.js

Dev Tools: Git │ CI/CD │ JIRA │ Confluence

Cloud & DevOps: Azure Functions │ Azure DevOps │ GitHub Actions │ Key Vault │ App Config │ API Management │ Azure Storage

WORK EXPERIENCE

Senior Software Engineer   10/2023 – Present │ Pune, India
Dentsu World Services

Software Engineer   06/2021 – 09/2023 │ Pune, India
Dentsu World Services

- Built LLM-powered applications using Azure OpenAI, LangChain, and Azure Cognitive Services, enabling chatbot and content automation workflows that reduced manual effort by over 60%.
- Designed agentic workflows in n8n to orchestrate a multi-agent data research system, accelerating data analysis tasks and cutting research turnaround time by nearly 40%.
- Developed automation tools for creative generation using image generation models and LLMs, integrated with the Photoshop API, leading to a 70% reduction in creative production time for marketing assets.
- Built a virtual reality e-commerce experience using Unity and Meta's Oculus Quest 2, enabling immersive navigation and interactive product browsing.

- Developed and optimized responsive web applications using HTML5, CSS3, JavaScript, and ReactJS, decreasing load times and improving Lighthouse performance scores by 25%.
- Built and maintained a reusable component library with Material UI and Tailwind CSS, reducing frontend development time in new modules and ensuring consistent design across multiple projects.
- Worked closely with cross-functional teams using Git, GitHub, and JIRA to streamline code delivery, reduce merge conflicts, and contribute to faster sprint turnarounds.

PROJECTS

Creative Automation System for Ad Generation
- Developed a system enabling merchants to select offers from a dataset and choose Photoshop PSD templates for ad creative generation.
- Utilized GPT-3.5 to generate dynamic ad copy based on selected offers and templates, while generating image variations with Bedrock Titan to enhance visual impact.
- Automated creative assembly by combining generated copies, selected images, and logos, producing multiple variations and storing outputs in a Digital Asset Management (DAM) system.
- Implemented functionality for creative selection, direct publishing to Facebook, and automated generation of PowerPoint presentations and ad post copies.

Custom AI Avatar Chatbot for Brand Engagement
- Created a Custom AI Avatar using Azure Avatar Services and Neural Voice, combining video and audio datasets with a RAG chatbot powered by GPT and brand-specific data. Added multimodal input/output, subtitles, and support for multiple avatars with selectable voices and languages for global accessibility.

VR E-commerce Experience
- Built a VR-based mall shopping experience using Meta's Oculus Quest 2 and Unity, featuring a virtual store assistant, a checkout counter, Salesforce integration, and seamless navigation with virtual boundaries and controller-based movement

ACHIEVEMENTS

Recognized for the VR E-commerce Experience showcased at the NASSCOM Expo.
NASSCOM

CERTIFICATES

- Master Generative AI: Automate Content Effortlessly with AI (Udemy)
- The Complete JavaScript Course 2022: From Zero to Expert! (Udemy)
- The Complete 2022 Web Development Bootcamp (Udemy)
- Learn Complete Python in a Simple Way

EDUCATION

Bachelor of Engineering (BE)   07/2013 – 05/2016
North Maharashtra University, Jalgaon

LANGUAGES

English   **Hindi**
Full Professional Proficiency   Native or Bilingual Proficiency

Declaration

I declare that the information provided in this resume is true, correct, and complete to the best of my knowledge.

Sandip Deshmukh
Pune