Umang Garg

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EDUCATION

R.D. ENGINEERING COLLEGE
B.Tech in Computer
Science(AIML)
Grad. July 2025 | Muradnagar, India

MOUNT CARMEL SCHOOL
Higher Secondary| Muradnagar, India

LINKS

Github:// **umang**
LinkedIn:// **umang**

COURSEWORK

GRADUATE
Machine Learning
Artifical Intelligence
Advanced Interactive Graphic
Functional Programming
Cloud Computing
Operating System
Computer Networks

UNDERGRADUATE
Information Retrieval
Operating Systems
Artificial Intelligence + Practicum
Functional Programming
Computer Graphics + Practicum
(Research Asst. & Teaching Asst 2x)
Unix Tools and Scripting

SKILLS

PROGRAMMING
Over 5000 lines:
Java(Basic) • TypeScript • Python(Basic) •
JavaScript
LaTeX
Over 1000 lines:
Sass • CSS • Material UI • Bootstrap •
Tailwind
Familiar:
AWS • iOS • Mongo DB • MySQL

EXPERIENCE

DOUX LABS |Software Engineering Intern
Aug 2024 – Present | Gurgaon, India
- Contributed as a Frontend Developer on a production-grade project using React.js, TypeScript, Sass, and Material UI, integrating with RESTful APIs for dynamic functionality.
- Gained hands-on experience with AWS services, including EC2, Route 53, CloudFront, and S3 Bucket for deploying and managing web applications.
- Developed and deployed a responsive static website using React.js, JavaScript, and Sass, focused on performance and maintainability.
- Actively collaborated on an open-source project built with PHP, gaining some exposure and contributing code enhancements.
- Built and maintained two React Native mobile applications (TypeScript-based); one published on the Google Play Store, and the second currently under review.

PROJECTS

IMAGINARYINK HTML, CSS, JavaScript, Python, Hugging Face

Built a tool that generates 2D and 3D images from user input images, using AI models trained on large-scale user preference feedback.

Integrated Python and Hugging Face models to enhance learning from user interactions and improve visual output quality over time.

AI CHAT BOT Vite Js, Hugging Face

Developed an interactive chatbot using Vite.js and Hugging Face NLP models, where users can enter prompts and receive GPT-like responses in real time.

Focused on building a smooth frontend experience and integrating the AI model for natural, context-aware replies.

ASPIREVAULT

Built with React Native and TypeScript, ensuring cross-platform compatibility and smooth performance on both Android and iOS devices.

Developed a React Native mobile app that helps users set, track, and manage goals while also enabling them to plan and save money effectively.

Integrated goal tracking, progress visualization, and budget-saving features to encourage consistent habits and financial discipline.

RESEARCH

R.D. RESEARCH AND DEVELOPMENT LAB | Researcher
Sep 2024 – June 2025 | Ghazizbad, India
Worked with **Anshul Raj** and **Prof. Hemant Kumar Bhardwaj** to create **Imaginary Ink**, a tool that uses large-scale user preference feedback to generate 2D and 3D images from user input images.

RESEARCH PAPER PUBLICATIONS

[1] U. Garg, A. Raj, and H. K. Bhardwaj. Imaginary ink: A novel approach to multi-modal image-to-visual content generation system. *Tech Report, IJFMR*, in press.