Ayush Singhai

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EDUCATION

IIIT SRI CITY
COMPUTER ENGINEERING
Expected May 2026
Andhra pradesh, IN

B.TECH IN COMPUTER ENGINEERING
Expected May 2026
College of Engineering

SKILLS

PROGRAMMING
Experienced:
Python • Java • Oracle SQL •
HTML/CSS/JavaScript/JQuery
• Django • Flask • Node/express
Familiar:
MongoDB • postgresql • MySQL •
kubernetes deployment

TOOLS/APPLICATIONS
Visual Studio • AWS • PyQt

OPERATING SYSTEMS
Windows • Linux • UNIX

LINKS

Github: github.com/ayush31o5
Leetcode: leetcode.com/u/Ayushsinghai
LinkedIn: www.linkedin.com/in/ayush-singhai-72931b258/
My Certificates: Certificates

EXPERIENCE

INVENT FOR CHANGE | FULL STACK SOFTWARE DEVELOPER INTERN
May. 2024 – August. 2024 | Bangalore, IN
- Developed and deployed a cross-platform web application for seamless document printing via local and network printers.
- Enabled users to upload files, customize print settings, and send jobs through Wi-Fi Direct or Bluetooth using dynamic QR code scanning. Integrated Razorpay for secure payments based on page count.
- Deployed on AWS EC2 with Nginx and Gunicorn, ensuring real-time tracking, responsive design, and multi-format support (PDF, DOCX).

THEHAC | SOFTWARE BACKEND ENGINEERING AND AGENTIC AI AND ML INTERN
November 2024 – Present | Remote
- Worked as SDE and now working agentic AI Intern at a startup, focusing on backend development and NLP. Responsible for building APIs, optimizing backend systems, and developing AI-driven chatbots with intent recognition and contextual understanding.
- Implementing ML models to enhance chatbot interactions and deploying scalable agentic AI solutions.
- Deployment to Micro Services to the AWS kubernetes.
- Organize and handle bugs and issues reported, continuously update software to meet client needs.

PROJECTS

JOB FINDER PLATFORM WITH BLOGGING FEATURE (ONGOING)
Developed a Job finder platform with the special help of .Dr. Himangshu Sarma,and .Dr.Dorsala Mallikarjun Reddy , both are Assitant Professors in IIIT Sri City.
Technologies Used
- B: Node.js, Express.js
- Frontend: React.js, Vite
- Database: MongoDB (via MongoDB Atlas)
- Authentication: JSON Web Tokens (JWT)
- File Uploads: Cloudinary, Multer
- Email Notifications: Nodemailer
Project Link:Cubicles

OCR TEXT EXTRACTION AND STRUCTURING
Developed OCR for Hindi/Devanagari text extraction and structuring using prompt engineering with .Ananya Jain who is employee in Google.
- Developed an OCR system for Hindi/Devanagari text extraction and structuring using prompt engineering, ensuring high accuracy in recognition and formatting. The system effectively preserves text layout, including spaces, line breaks, and special characters.
- It leverages AI-driven techniques for improved readability and structured output.

3D HAND GESTURE RECOGNITION
Improved a 3D hand gesture model having bone joints vector with Prof. Dr. Piyush Joshi who is a professor in IIIT Sri City.
- Enhanced 3D hand gesture recognition by refining bone joint vector-based pose estimation.
- Improved accuracy and robustness in detecting hand gestures under occlusions and complex movements.