Yash Agarwal

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EDUCATION

Graphic Era Hill University   Uttarakhand, India
B.Tech. in Computer Science & Engineering, Honors in ML & AI   *Aug 2023 – July 2027*

PROJECTS

Interactive Resume Maker
- Modern web app with React, Three.js, and Tailwind CSS presenting resumes in a 3D forest interface.
- Features user registration, login, and profile management secured with JWT and BCrypt password hashing.
- Real-time editing with auto-save, instant feedback, and version control stored in MongoDB.
- Responsive layout implemented with CSS flex/grid to support desktop and mobile views.

Plant Watering System
- *IO Module*: ESP8266 microcontroller reads analog soil moisture sensor to trigger water pump via threshold logic; serial console monitoring.
- *WiFi Module*: ESPAsyncWebServer hosts a JSON-based configuration portal; supports OTA firmware updates.
- Logged sensor readings and pump actions to Firebase Firestore with token-based authentication.
- Configured Google Apps Script to backup data to Google Sheets for redundancy and reporting.

First Link Rule (Frontend)
- SPA built with Vue.js and Vuex for state management to display traversal results from backend API.
- Client-side search and filter implemented with simple list rendering and pagination.
- Data fetched via Axios from REST endpoints; styled layouts using Tailwind CSS.

First Link Rule (Backend)
- Flask-based REST API using requests and BeautifulSoup to parse the first link of Wikipedia articles.
- Implements loop and dead-end detection with configurable maximum iterations.
- Persisted traversal data in MongoDB and accelerated frequent requests with Redis caching.
- Packaged services in Docker containers and deployed on AWS Lambda for scalability.

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, TypeScript
Frameworks: React, Vue.js, Tailwind CSS, Three.js
Backend: Node.js, Express, Flask, REST APIs
Databases: MongoDB, PostgreSQL, Firebase
Tools: Git, Docker, Puppeteer, BeautifulSoup, Unix/Linux
Concepts: Data Structures & Algorithms, Software Design

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Solutions Architect – Associate

Google Cloud Associate Cloud Engineer