Yash Agarwal

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EDUCATION

Graphic Era Hill University   Uttarakhand, India
B.Tech, CSE (Honors in ML & AI)   *Aug 2023 – Jul 2027*

PROJECTS

Interactive Resume Maker   Live Demo
- Developed a dynamic résumé editor with React and Tailwind CSS, enabling real-time section edits.
- Integrated serverless PDF export via Puppeteer, ensuring high-fidelity document generation.
- Implemented drag-and-drop section reordering and theme customization for user flexibility.
- Conducted usability testing and iterated UI to meet ARIA accessibility standards.
- Documented API endpoints and component library usage for future contributions.

First Link Rule Frontend   Live Demo
- Built a Vue.js application to visualize Wikipedia first-link traversals toward *"Philosophy"*.
- Rendered interactive SVG graphs and provided search/filter to inspect link paths.
- Optimized performance using code splitting and lazy loading, reducing initial payload by 40%.
- Shared design tokens and component guidelines in a published style guide.
- Collaborated with backend team to integrate REST endpoints for real-time updates.

First Link Backend   Live Demo
- Designed RESTful API with Node.js & Express to retrieve Wikipedia first-link traversals, converting scraper from Selenium to BeautifulSoup for environment constraints.
- Stored graph data in MongoDB and implemented Redis caching for performance.
- Secured endpoints via JWT authentication and rate limiting for abuse prevention.
- Containerized service with Docker and established CI/CD pipeline for automated deployments to AWS Lambda behind API Gateway, achieving on-demand scalability.
- Monitored performance and logs via Render.com and Grafana dashboards.
- Wrote comprehensive API documentation, integrated Swagger UI for developers, and ensured API contract consistency with the frontend team.

TECHNICAL SKILLS

Frontend: React, Vue.js, Vite, Tailwind CSS, HTML5, CSS3, ES6
State Mgmt: Redux, Vuex, Context API
Backend: Node.js, Express, Flask, FastAPI, RESTful APIs
Databases: MongoDB, PostgreSQL, Redis
DevOps: Docker, AWS Lambda, API Gateway, CI/CD (GitHub Actions), Vercel, Webpack, Lighthouse, Render.com, Grafana
Security: JWT, OAuth2, Helmet, Bedrock Passport
Tools: Git, npm/yarn, Puppeteer, BeautifulSoup
Design: Figma, Adobe XD, responsive & accessible UI

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Solutions Architect – Associate

AWS Certified Developer – Associate

Designing Event-Driven Architectures

Google Cloud Certified Associate Cloud Engineer