ASHUTOSH KUMAR DWIVEDI

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EDUCATION

Institute of Engineering and Technology, DAVV, Indore
B.Tech. in Electronics and Communication Engineering — 2022 – 2026 | **CGPA: 8.3**
D.A.V. Senior Secondary Public School, Singrauli
12th – 91.6% (2021) | 10th – 94% (2019)

TECHNICAL SKILLS

- **Languages:** C/C++, Java, Python, JavaScript, TypeScript
- **Frameworks/Libraries:** Node.js, Express.js, React.js, Next.js, Tailwind CSS
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Figma, Canva, AWS, Hostinger, Jira, Jupyter Notebook, VS Code
- **Concepts:** Data Structures and Algorithms, OOP, Operating Systems, SDLC, Functional Programming (beginner level), Agile Methodologies
- **Soft Skills:** Effective problem-solving, collaboration, communication

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PROJECTS

EquiLoad – GitHub Repo
Node.js, Express.js, Next.js, Scikit-learn, MongoDB

- Built a scalable backend load balancer implementing Round Robin, Least Connections, and IP Hashing algorithms.
- Integrated ML model to dynamically predict optimal server routing using CPU usage, memory, and response metrics
- Delivered real-time monitoring dashboard; reduced server response time under simulated traffic
- Focused on backend reliability and performance under high-concurrency conditions

AI-Powered Portfolio Builder – GitHub Repo
React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Grape.js, Gemini API

- Developed a no-code, drag-and-drop portfolio builder for real-time UI/UX generation.
- Integrated GitHub & Gemini APIs to auto-populate project data dynamically
- Enabled one-click deployment for rapid customization — reduced manual configuration by 70%

Other Projects
- Built 10+ full-stack applications focusing on authentication, CRUD, REST APIs, and scalability
- Implemented caching, async queue processing, and error handling to ensure robust backend performance.

EXPERIENCE

Open-Source Contributor — GirlScript Summer of Code (GSSoC 2024 Extended)   *Jan 2024 – Apr 2024*
- Contributed to RCCIIT GDG and Uttarakhand Culture UI projects under GSSoC
- Developed 5+ reusable UI components and improved performance by optimizing React rendering
- Reduced website load time by 40% through code and asset optimization

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ACHIEVEMENTS & COMMUNITY

- Solved **350+ LeetCode** problems including **150+ Medium/Hard**, Contest Rating: **1470**
- Ranked in **top 50%** on LeetCode contests
- Active in backend, frontend and system design discussions across developer communities.
- Continuously exploring **functional programming paradigms** and scalable backend and frontend design patterns.