**SATVIK JAYALWAL**  
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**SUMMARY**

Aspiring **Software Engineer** with a strong foundation in **Data Structures & Algorithms, System Design, and Full-Stack Development**. Passionate about **building scalable applications, problem-solving, and contributing to open-source projects**. Seeking to leverage my skills in a product-based company like **Google, Microsoft, or Amazon**.

**SKILLS**

**Programming Languages:**

* Python | Java | JavaScript | C++

**Web & Backend Development:**

* Django | Flask | Node.js | Express.js | REST APIs | Microservices

**Frontend Development:**

* React.js | HTML5 | CSS3 | Bootstrap | Tailwind CSS

**Database Management & Cloud:**

* MySQL | PostgreSQL | MongoDB | Firebase | AWS (EC2, S3, Lambda)

**Computer Science Fundamentals:**

* Data Structures & Algorithms (DSA) | System Design | Operating Systems | Computer Networks | DBMS | OOPS

**Version Control & DevOps:**

* Git | GitHub | GitLab | Docker | Kubernetes | CI/CD Pipelines

**Machine Learning & AI:**

* Scikit-learn | TensorFlow | OpenCV (Basics) | NLP (Text Processing)

**EDUCATION**

**B.Tech in Computer Science & Engineering**

* **Dronacharya College of Engineering** (2022–2026)
* **CGPA:** 8.37 (Till 4th Semester)

**Diploma in Computer Science & Engineering**

* **Government Polytechnic Manesar** (2019–2022)
* **Percentage:** 75%

**X (CBSE)**

* **Suraj School** (2020)
* **Percentage:** 75%

**WORK EXPERIENCE**

**Software Developer Intern**

* **IBRA Digital Branding Services Pvt. Ltd.** | Summer 2024 (6 Weeks)
* Developed a **content-based recommendation system** for a news platform using **Python, scikit-learn, and MySQL**, improving article recommendations by **35%**.
* Optimized **database queries** to improve retrieval time by **40%**.
* Integrated a **REST API** for fetching dynamic news articles.
* Collaborated with a **team of 5** to enhance the **frontend and backend** using Django.

**PROJECTS**

**1. TaskEase (AI-Powered Task Manager) | Django, React, PostgreSQL, OpenAI API**

* Designed and implemented an AI-based **task prioritization system** using **NLP**.
* Enabled **real-time synchronization** between users and tasks via **WebSockets**.
* Improved task completion efficiency by **30%** through smart automation.

**2. Smart Hospital Management System | Python, Flask, MySQL**

* Built a **full-stack hospital management system** with **authentication and CRUD functionalities**.
* Implemented a **role-based dashboard** for doctors, patients, and administrators.

**3. E-Commerce Platform (Amazon Clone) | MERN Stack**

* Developed an **Amazon-inspired e-commerce website** with **user authentication, cart functionality, and Stripe payments**.
* Optimized **backend APIs** to reduce response time by **45%**.

**4. Tic-Tac-Toe with Minimax Algorithm | Python, AI**

* Implemented the **Minimax algorithm** for an unbeatable AI opponent in Tic-Tac-Toe.
* Used **PyGame for GUI**, enhancing user interaction and experience.

**ACHIEVEMENTS & CERTIFICATIONS**

* **Google Kick Start Round 1 Qualifier** (2024)
* **Leetcode 1000+ Problems Solved (Rating: 1800+)**
* **CodeChef 4-Star (Rating: 1800+)**
* **Microsoft Certified: Azure Fundamentals (AZ-900)**
* **AWS Cloud Practitioner Certification**

**EXTRACURRICULAR ACTIVITIES & LEADERSHIP**

* **Google Developer Student Clubs (GDSC) Member** – Organized tech events and hackathons.
* **NSS Volunteer** – Participated in **National Adventure Camp** and **National Integration Camp**.
* **Scout & Guide Member** – Completed multiple leadership training camps.

**SOFT SKILLS**

* **Problem-Solving** | **Leadership** | **Time Management** | **Teamwork** | **Critical Thinking**