SHIVANG SHUKLA

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Summary

Computer Science undergraduate with hands-on experience in full-stack development, AI/ML integration, and systems programming. Proficient in Java, Python, and JavaScript. Open source contributor to the D programming language with impactful runtime contributions. Versatile and results-driven with a focus on performance and maintainability.

Education

GLA University, Mathura   **Sep' 22 - Jul' 26**
- B.Tech - Computer Science | CGPA: **7.92 / 10**

Gayatri Public School, Agra
- *CBSE (Class XII), CGPA: 8.0 / 10*   **Mar' 2022**
- *CBSE (Class X), CGPA: 8.4 / 10*   **Mar' 2020**

Skills

Technologies: Full-Stack Development | Git & Version Control | AI/ML | DLang & DMD (D Compiler) | Linux
Languages: Java | JavaScript (ES6+) | HTML5 & CSS3 | Python | SQL
Libraries and Frameworks: Bootstrap | Tailwind CSS | Mongoose.js | Express.js | React.js | Node.js | FastAPI | Scikit-Learn
Soft Skills: Problem Solving | Communication | Critical Thinking | Adaptability | Analytical Skills

Work Experience

Systems Programming | Open Source Contributor | DLang Runtime   **Mar' 25 - Present**
- Templated and optimized **_d_arraysetlengthT** in **Druntime** for better performance and maintainability.
- Removed obsolete **CTFE runtime hooks** to streamline interpreter logic and support modern lowering mechanisms.
- Improved memory handling and initialization logic for dynamic arrays.

Software Engineering Virtual Experience | **JP Morgan** | **Forage**   **Jun' 24 - Jul' 24**
- Resolved codebase issues to restore correct functionality of the web application.
- Implemented real-time data visualization using **JPMorgan's Perspective library.**
- Enhanced data analysis and engagement for 20+ traders on the trading floor.

Data Science and Analytics | **Internship** | **Zidio Development**   **Jun' 24 - Jul' 24**
- Developed a customer segmentation model using clustering on demographic and behavioral data.
- Enhanced CRM strategies by analyzing purchasing patterns for targeted marketing.
- Built a CNN-based digit recognition system with 98% accuracy on handwritten inputs.

Projects

Estate Heaven | MERN Real Estate Platform   **Jan' 25 - Feb' 25**
- Built a MERN stack real estate platform with JWT-based authentication and role-based access control.
- Implemented search filters, property sorting, and Multer-based image uploads for seamless UX.
- Designed a responsive UI using React and TailwindCSS; optimized MongoDB for fast retrieval.
- Integrated RESTful APIs for dynamic data handling, enabling real-time updates and smooth interactions.
- **Tech Stack:** MongoDB, Express.js, React, Node.js, TailwindCSS, JWT, Multer, REST API

VoxForm | Gender-Specific Audio Based Form Filler   **Sep' 24 - Oct' 24**
- Developed voice recognition for form filling to enhance accessibility for visually impaired users.
- Automated gender detection using machine learning to enable targeted data collection for AI applications.
- Improved transcription accuracy by 25% using **MFCC-based** gender classification and audio optimization.
- **Tech Stack:** Python, TensorFlow, SpeechRecognition, Librosa, NumPy, Streamlit, PyAudio, pyttsx3

Achievements and Certifications

- Achieved recognition by advancing to the internal round of the **Smart India Hackathon**
- Problem Solving Intermediate | Hackerrank
- Software Engineer Intern | Hackerrank
- Secured **1st place** in **Hack & Viz Hackathon** | GLA University

Extracurricular

- **Creative Head**, Natraj Dance Club – Boosted event turnout by 30% through stage design, lighting, and visual execution.
- Led team to victory in Group Dance Competition at **SPANDAN 2K24**, GLA University.
- Freelance Video Editor – Created high-quality promotional videos for startups, aligned with brand objectives.