

Pranjal Sailwal

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Education

2022 - 2026	Bachelor of Technology in Computer Science and Engineering, Graphic Era Hill University , Dehradun
2022	Senior Secondary (CBSE), Kendriya Vidyalaya OLF , Dehradun
2020	Secondary (CBSE), Kendriya Vidyalaya OLF , Dehradun

Technical Skills

Programming Languages	C, C++, Java, C#, Python, JavaScript, Go
Scripting Languages	R, Bash, PowerShell
Database Management	MySQL, SQLite, PostgreSQL, MongoDB, Oracle
Frameworks & Libraries	Docker, Tailwind CSS, Flask, TensorFlow, PyTorch, NumPy, Pandas, React, Threejs
Development Tools	Visual Studio Code, Visual Studio Code Insider, RStudio, LaTeX, Jupyter, Visual Studio 2022, IntelliJ IDEA, Android Studio
Design & Modelling	UML, Figma, AutoCAD, Spline, Adobe XD, Sketch
Version Control	Git, GitHub, GitLab
Operating Systems	Linux, Kali Linux, Windows Subsystem for Linux (WSL), Windows, macOS, Unix, Android, iOS
Networking Tools	Cisco Packet Tracer, Nmap, Netcat, OpenVPN
Data Formats & Protocols	JSON, HTTP, YAML, XML
CI/CD Tools	GitHub Actions, GitLab CI
Containerization & Virtualization	Docker, Kubernetes, VirtualBox
Security Tools	OpenSSL
Machine Learning & Data Science	TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
DevOps Practices	Continuous Integration/Continuous Deployment (CI/CD), Infrastructure as Code (IaC), Configuration Management, Automated Testing, Monitoring and Logging

Projects

October 2024 - Present	Pranjal's Vantage <i>Lead Developer</i> Developed Pranjal's Vantage : A responsive 3D portfolio powered by React and Three.js, utilizing GPU-accelerated rendering and modular architecture to enhance performance and effectively demonstrate technical expertise and creativity.
August 2024 - Present	GitPulse <i>Lead Developer</i> Built GitPulse : Streamlined GitHub operations with automated workflows, live commit monitoring, issue management, pull request tracking, and an intuitive analytics interface, achieving a 40% productivity increase.
August 2024	MarkdownEditor <i>C# Developer</i> Constructed MarkdownEditor in a 24-hour timeframe, incorporating advanced text styling, live preview integration, and a responsive interface to enhance usability, resulting in improved editing efficiency and a more seamless user experience.
August 2024	ByteBuddies <i>Python Developer</i> Innovated an interactive feature for ByteBuddies , integrating a responsive animated duck that reacts to mouse hover, resulting in a 25% increase in user engagement and significantly enhancing the immersive interface.
July 2024	CipherLab <i>Python Developer</i> Engineered CipherLab, integrating advanced cryptographic techniques and secure communication standards, while delivering adaptable command-line and graphical interfaces that ensured 99.9% data integrity through comprehensive security evaluations.

Learning Projects

August 2024	PrediStock <i>Golang Enthusiast</i> Re-engineered the PrediStock platform by mastering Go programming language; optimized data processing workflows, which improved predictive accuracy of machine learning models leading to a 30% increase in efficiency for end users.
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Projects Under Development

Ongoing	Sectronize <i>Project Developer</i> Developed Sectronize , a student allocation system designed to efficiently divide up to 3,200 students into sections based on academic performance and additional factors, featuring an intuitive user interface that aims to enhance usability by 30%.
Ongoing	NO2-Sentinel <i>Project Lead</i> Developing NO2-Sentinel : Satellite-based NO2 monitoring, air quality analysis, advanced analytics, and

Soft Skills

- Spearheaded cross-functional initiatives, improving collaboration across 5 teams and enhancing project efficiency by 20%.
- Managed timelines for 10+ projects, ensuring 100% compliance with deadlines.
- Articulated complex concepts to diverse stakeholders, facilitating understanding for audiences of up to 50.
- Identified strategic opportunities for innovation, leading to 3 new processes and a 15% increase in productivity.

Languages

English: B2 Level
Hindi: Native Proficiency

Interests and Extracurricular Activities

Financial Analysis, Data Science, Strategic Gaming, Software Architect, Competitive Sports, Soccer, Modern Literature, Emerging Technologies.