

ALOK PATHAK

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SUMMARY

Computer Science student with practical experience in Android development, data engineering, AI-ML, and cybersecurity through multiple internships. Strong foundation in Python, Java, C++, and web technologies with demonstrated project work. Seeking opportunities to apply technical skills and continue growth in software development and data science.

WORK EXPERIENCE

Android App Development Intern Apr - Jun 2024  
Google For Developers, Virtual

- Developed Android applications with Java and Kotlin using Android Studio
- Implemented responsive UI designs and integrated REST APIs
- Collaborated with team members following agile methodologies

Data Engineering Intern Jan - Mar 2024  
AWS, Virtual

- Worked with AWS Glue, Redshift, and S3 for data processing
- Designed and implemented ETL pipelines for large datasets
- Applied data warehousing concepts and best practices

AI-ML Intern Sep - Nov 2023  
AWS, Virtual

- Utilized AWS SageMaker for ML model development and deployment
- Implemented classification and prediction models with Python
- Analyzed results and optimized model performance

Cyber Security Intern May - Jul 2022  
Palo Alto Networks, Virtual

- Participated in vulnerability assessment and penetration testing
- Learned network security fundamentals and threat detection
- Gained experience with security tools and techniques

EDUCATION

B.Tech, Computer Science & Engineering 2022 - 2026  
Galgotias University

Senior Secondary (XII), Science 2021  
St. Xavier's High School, CBSE | 76.00%

Secondary (X) 2019  
Alok Vidyashram, CBSE | 87.00%

TECHNICAL SKILLS

- Python (Intermediate) • Java (Intermediate) • C++ (Intermediate)
- HTML (Advanced) • CSS (Intermediate) • Networking (Intermediate)
- Database Design • Cloud Computing • English (Intermediate)

LEADERSHIP & ACHIEVEMENTS

- Led a team to Karkhana workshop, coordinating activities and ensuring project completion
- Scored first rank in computer applications, hardware, software, MS Office, and HTML
- Consistently maintained top academic performance throughout undergraduate studies

PROJECTS

GPU Based Speech-to-Text Model Jan - Mar 2024

- Developed high-performance speech recognition system using Python and CUDA
- Implemented VSOC (Vocal Sound Optical Converter) technology for improved accuracy
- Achieved 95% transcription accuracy with optimized GPU processing
- Reduced processing time by 70% compared to CPU-only implementations

E-Commerce Website Jun 2022 - Aug 2024

- Designed and developed full-stack e-commerce platform with user authentication
- Implemented shopping cart functionality, payment processing, and order management
- Utilized responsive design for optimal user experience across devices
- Integrated inventory management system with real-time stock updates

Youtube Video/Audio Downloader Apr 2024

- Created Python application to download YouTube videos and extract audio
- Implemented format selection and quality options using pytube library
- Developed user-friendly interface for easy operation and customization

Credit Card Validator Dec 2022

- Built program to validate credit card numbers using Luhn algorithm
- Implemented card type detection based on number patterns
- Designed with security considerations to protect sensitive information

CERTIFICATIONS & TRAININGS

Packet Tracer	Database Design
Cisco Networking Academy	Oracle Academy
Apr - May 2024	Dec 2023 - Jan 2024
Cybersecurity Fundamentals	Cloud Computing
IBM	Infosys Springboard
Dec 2023	Aug 2023

ADDITIONAL SKILLS & COMPETENCIES

- Programming:** Object-Oriented Design, Data Structures, Algorithms, Version Control (Git)
- Web Development:** Frontend, Responsive Design, RESTful APIs, Basic Backend
- Database:** SQL, Data Modeling, Basic NoSQL concepts
- Machine Learning:** Classification, Regression, Data Preprocessing, Basic NLP
- Tools:** Android Studio, Visual Studio Code, Jupyter Notebook, AWS Console
- Soft Skills:** Problem-solving, Team Collaboration, Time Management, Communication