AYUSH PRAWAL

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EDUCATION

Bengal College of Engineering and Technology, Durgapur July, 2024
B.Tech in Computer Science & Engineering *CGPA: 8.56*

P.N.K. College, Patna March, 2019
Senior Secondary School *Marks: 84%*

Brilliant Public School, Jehanabad June, 2017
Secondary School *CGPA: 9.80*

TECHNICAL SKILLS

Programming: Java (8+), C, MySQL, HTML, Data Structures and Algorithms
Frameworks and Tools: JDBC, JavaFX, Servlets, JSP, Gradle, XML, GitHub, Jira, Spring Boot
Database Management: DBMS, Relational Database, SQL, CRUD Operations, JDBC-based MySQL Integration
Concepts: OOPs, SDLC, MVC, REST APIs, Exception Handling
Development: SDLC, MVC Arch, Agile Methodology, Android Dev, Session Management
Network Technologies: TCP/IP, UDP, ARP, VLAN, VxLAN
AI & Prompt Engineering: AI Fundamentals, Effective prompts for AI tools like ChatGPT, DeepSeek
Platforms and Tools: Linux, Windows, Eclipse IDE, VS Code, Android Studio, Apache Tomcat
Academic Foundations: Operating Systems, Computer Architecture, Compiler Design, Computer Networks

PROJECTS

Employee Management System │ *Java, JSP, Servlets, JDBC, MySQL, HTML, Apache Tomcat* Link
- Engineered a **Java web app** with secure login/logout handling for **50+ users** and robust session control.
- Automated **CRUD** workflows using **JDBC**, achieving sub-**150 ms** data transactions across **4+ core** modules.
- Designed **MVC arch** using **JSP, Servlets**, **JDBC** to ensure clear separation b/w user interface & data logic
- Secured **8+ JSP** pages with `WEB-INF`, enforced **15-min** timeout, implemented role-based access authorization.

Timetable Generator │ *Java, Java Swing, Core Java APIs* Link
- Built a GUI using **Java Swing**, increasing timetable accuracy by **90%** for college departments.
- Optimized faculty mapping via **HashMap, ArrayList**, reducing errors by **80%** and lookup time by **30%**.
- Enabled **95% accurate** automated generation and **70% time reduction** in the timetable creation process.

Cloud Music Player App │ *Java, Android SDK, Google Drive API, OAuth 2.0, ExoPlayer, RecyclerView* Ongoing
- Devised Android player using **Java** to stream over **2,500+ audio files** directly from **Google Drive**.
- Integrated **Drive API** and folder mapping logic to fetch and list files dynamically via **RecyclerView**.
- Implemented **OAuth 2.0** flow for user authentication, ensuring secure access and data protection.
- Configured **ExoPlayer** for efficient playback, increasing user engagement and media access by **40%**.

CERTIFICATION & TRAINING

Core Java │ *Internshala Training* │ Link Feb – May 2023
- Completed **8-week** Core Java training covering OOP, exception handling, multithreading, and file handling.
- Designed and built **Connect 4 game** using **JavaFX**, implementing **2-**player logic with advanced win detection.
- Applied **MVC pattern**, **JavaFX UI** components to create a modular app with real-time score tracking.

PROFESSIONAL EXPERIENCE

Technical Content Expert (Computer Science) │ *Chegg India* May – June 2022
- Solved **100+** technical queries across Data Structures, OS, OOP, and DBMS, boosting student satisfaction
- Analyzed and explained complex CS problems with **clarity and depth**, improving solution accuracy
- Resolved **75%** networking issues, including **TCP, UDP, IP, and LAN** troubleshooting, enhancing client outcomes

LEADERSHIP & CODING EXPERIENCE

Organizer & Coordinator, Cybercell, BCET
- Executed **4+** technical events, demonstrating leadership, teamwork, and effective coordination.
- Led recruitment drives, onboarded **10+** members, fostering a growth-oriented tech community.

Coding Achievements
- Solved **600+** CodeChef and **140+** LeetCode problems; contest ratings: **1440+** (CC), **1500+** (LC).