

PREM SINGH

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TECHNICAL SKILLS

- **Languages:** Python (scripting/automation), C (memory model), C++
- **Databases:** PostgreSQL, MySQL
- **OS & Core:** Linux (Bash, systemd, iptables, TCP/IP, file permissions, process management), Windows, MacOS
- **Tools & Frameworks:** GDB, Wireshark, Nmap, Burp Suite, Metasploit, Splunk, BloodHound, Git, GitHub, Figma

EXPERIENCE

- Chess Coach & Operations Manager Intern** | *Chess Wizzania* Jan 2026 – Present
- Coach students in chess fundamentals and advanced strategy via structured, personalized training sessions.
 - Manage scheduling, administrative workflows, and operational coordination to ensure smooth day-to-day functioning.

PROJECTS

- Chess Tournament Swiss Pairing System** | *Python* GitHub
- Built a Python automation tool implementing the Swiss pairing algorithm to generate fair, competitive matchups.
 - Designed logic accounting for player scores, win/loss history, and past opponent records to eliminate rematches.

- Document Viewer** | *Python, PyQt6, PyMuPDF* GitHub
- Developed a cross-platform PDF reader featuring asynchronous rendering, intelligent caching, and PyMuPDF integration for high-performance document handling.
 - Designed a responsive GUI using PyQt6 and custom QSS, implementing a tabbed interface, dark theme, and animated sidebar.

- SkillForge** | *Django, React, PostgreSQL* GitHub
- Built a full-stack AI career platform for skill verification and personalized learning paths; secured 7th at JNU Hackathon.
 - Designed the frontend prioritizing a user-friendly interface and clear typography for seamless navigation.

OPEN SOURCE CONTRIBUTIONS

- EnPassant Chess Forum Website** | *Frontend Developer* GitHub
- Actively building and designing the frontend architecture for the official EnPassant Chess Forum.

LEADERSHIP & CAMPUS INVOLVEMENT

- Chess.com** | *College Ambassador* Jan 2026 – Present
- Represent Chess.com officially on campus, growing the platform's student user base through peer outreach and campaigns.
 - Organize Chess.com-sponsored online tournaments and community engagement events for the college.

- EnPassant Chess Forum** | *President* Aug 2025 – Jun 2026
- Led a chess community of 400+ members, organizing campus-wide tournaments, workshops, and online events.
 - Spearheaded club initiatives and directed design efforts, boosting visibility and student participation.

- ACM Student Chapter** | *Design Lead* Aug 2025 – Jun 2026
- Directed branding and design for club events and digital content, strengthening audience engagement and outreach.
 - Produced visual assets in collaboration with event teams, supporting seamless event execution.

PATENTS

- Role-Based Digital Agri-Tech Platform for Integrated Resource Management** Feb 2026
- Patent filed under The Patents Act, 1970 (India) focusing on dynamic resource allocation workflows.

- SkillForge: AI-Powered Personalized Learning and Recruitment Platform** 2026
- Patent filed under The Patents Act, 1970 (India) detailing automated matching and verification logic.

EDUCATION

- ABES Engineering College, AKTU** — B.Tech in Computer Science & Engineering (71.08%) 2023 – 2027
- Sri Ram Education Centre, CBSE** — Senior Secondary (81.8%) May 2023
- Sri Ram Education Centre, CBSE** — Secondary (94.0%) May 2021

ACHIEVEMENTS

- **Hackathon Veteran (15+ Events):** Contributed as frontend designer, security tester, and primary pitcher, showcasing strong technical, communication, and leadership skills across online/offline events.
- **JNU Open Tech-Fest Hackathon:** Ranked 7th out of 65 competing teams for developing SkillBridge.
- **Chess Tournaments:** 4th Place overall in ABES Chess Championship (2025); 2nd Runner-Up in Shehmaat Solo (2024).