

PREM SINGH

Ghaziabad, Uttar Pradesh

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EXPERIENCE

Chess Coach & Operations Manager Intern — *Chess Wizzania* Jan 2026 – Present

- Coach students in chess fundamentals and advanced strategy with structured, personalized training sessions.
- Manage scheduling, administrative workflows, and operational coordination to ensure smooth day-to-day functioning.

PROJECTS

SkillForge — *Django, React, PostgreSQL, LangChain, RAG, Vector Embeddings*

- Built a full-stack AI-powered career platform where students verify skills, receive personalized learning paths, and apply to jobs end-to-end.
- Engineered semantic candidate-job matching using sentence embeddings and cosine similarity, leveraging resume analysis and GitHub profile insights.
- Implemented RAG-powered applicant ranking and recruiter dashboards for automated candidate screening without manual shortlisting.

Chess Tournament Swiss Pairing System — *Python*

Built a Python automation tool implementing the Swiss pairing algorithm to generate fair, competitive round matchups for chess tournaments.

- Designed pairing logic that accounts for player scores, win/loss history, and previous opponent records to eliminate rematches.
- Streamlined tournament administration by removing manual pairing effort, improving accuracy and round turnaround time.

PATENTS

Role-Based Digital Agri-Tech Platform for Integrated Agricultural 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.

TECHNICAL SKILLS

Languages: Python, C++, C
Databases: PostgreSQL, MySQL
Tools & Frameworks: Django, React, LangChain, RAG, Git, GitHub, Figma, HTML5, CSS3
Operating Systems: Linux, Windows, MacOS

ACHIEVEMENTS

- **Competitive Programming:** Achieved a 2-Star rating on CodeChef through consistent platform contest participation.
- **JNU Open Tech-Fest Hackathon:** Ranked 7th out of 65 competing teams for the development of *SkillBridge*.
- **Shehmaat Solo Chess Tournament:** Secured 2nd Runner-Up placement in the 2024 brackets.
- **ABES Chess Championship:** Attained 4th Place overall in the 2025 tournament cycle.

EDUCATION

B.Tech Computer Science & Engineering Graduation: May 2027
ABES Engineering College, Ghaziabad Overall: 71.08% (till 5th Semester)