

# ANURAG KUMAR

## FULLSTACK WEB DEVELOPER

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### SUMMARY

A highly adaptable Full-Stack Developer with a proven ability to build and maintain web applications from concept to deployment. Experienced in crafting both intuitive user interfaces and robust server-side logic to deliver seamless and efficient solutions.

### SKILLS

HTML/CSS	Node.js	Git/Github
Javascript	PHP	Python
TypeScript	MySQL	C/C++

### PROJECTS

#### SwiftHealth - Healthcare Companion Web App

- Developed SwiftHealth, a full-stack healthcare web application enabling patients to book appointments and doctors to manage schedules through personalized dashboards.
- Implemented an emergency response system that transmits a patient's last known location to their doctor upon alert activation.
- Integrated an AI-powered medical assistant to provide users with general health information and guidance.

#### Ironfang - Custom Chess Engine

- Built Ironfang, a competitive chess engine in C++ capable of evaluating millions of positions per second, using minimax with alpha-beta pruning, iterative deepening, and transposition tables.
- Optimized search with 4+ heuristics (killer moves, history heuristics, late move reductions, null move pruning), reducing average node count by over 60%.
- Implemented a bitboard-based architecture with Zobrist hashing and endgame-aware evaluation, improving playing strength to an estimated ~2400 Elo.

### EDUCATION

#### B.Tech in Computer Science Engineering Aug 2023 - Present

Lovely Professional University, Phagwara, India

- CGPA - 8.8

#### Senior Secondary and Secondary 2014 - 2023

Firayalal Public School, Ranchi

- Percentage - 91

### CERTIFICATIONS

- NPTEL Elite Certificate in Cloud Computing
- Game Development using Unity & C#