Arpit Singh

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Education

National Institute of Technology, Hamirpur   **Aug 2024 – June 2028**

B.Tech, Computer Science Engineering

Technical Skills

Languages: Golang, Python, C++, Scala, Rust, JavaScrpit, Solidity ,Dart
Web and API Technologies: Golang (net/http), Django, Actix Web, Hugo, Express,js, Next.js,
Database: Redis, MongoDB, MySQL, PostgreSQL, SQLite
Developer Tools: NeoVim, VS Code, Git & GitHub, Kitty, Android Studio
Operating Systems: Arch Linux, Ubuntu Linux, Windows
Relevant Coursework: DSA, OOP, Operating Systems, Computer Networks, Low-Level Design
Soft Skills: Strategic Problem Solving, Communication, Event Management, Public Relations , Mentorship

Work Experience

Open Source Contributor, Ancient Beast & Scala/Terminus   **January 2025 – May 2025**
- **Ancient Beast | Jan 2024 – Present**
- Merged 2 pull requests, earning a total of **87 MintMe coins** as contributor rewards.
- Designed and developed a new game character, **Bounty Hunter**, to enhance gameplay diversity and strategic options.
- Resolved **z-indexing issues**, improving UI layering and overall visual consistency during gameplay
- **Scala/Terminus | March 2025 – May 2025**
- Contributed 2 PRs during Google Summer of Code with Creativescala.
- Implemented **cursor movement (left/right)** using ANSI escape codes; added right() and left() methods to public APIs..
- Added **terminal dimension** support for xterm.js backend, enabling resizing and dynamic layout handling.
- Wrote unit tests to ensure correctness, maintaining full test coverage and API consistency.

Volunteer, .EXE Technical Club, NIT Hamirpur   **January 2025 – Present**
- Contributed to the club's success in winning **Best Technical Club at Nimbus 2025** through active involvement in events
- Assisted in building a **Smart Parking System**, focusing on real-time slot tracking and efficient space utilization.

Projects

AI Resume Screening Platform (Github) — *React, Express, n8n, Gemini API, JotForm*
- AI-based recruitment tool for instant resume screening using ATS scoring and **no-code automation**.
- Integrated **n8n for no-code automation**, enabling AI scoring, email notifications, and Slack/Discord alerts.
- **Reduced** manual screening time by **70%** and improved recruiter decision speed

GlobalRoute Navigator (Github) — *Next.js, FastAPI, TypeScript, PostgreSQL, Leaflet.js, Google Gemini*
- Designed an **AI-based logistics optimizer** for multi-modal shipping (Air, Sea, Land, Hybrid) with real-time route insights.
- Implemented the **A* pathfinding algorithm** with dynamic heuristics for cost, time, and carbon footprint optimization.
- Achieved a **60% improvement** in simulated delivery time and environmental impact assessments.

SpeakPro AI(Github) — *React.js, Node.js, Python, Streamlit, Gemini, MediaPipe, ElevenLabs*
- Developed an AI-based conversational skills coach providing real-time feedback and analytics for job seekers and professionals.
- Helped **200+** users improve communication skills, with **90%** reporting greater interview confidence

Achievement

- **3× Hackathon Winner**
  - **• AssistSpeak –** *AI voice interface for speech-impaired users*
  - **• BlindNavigator –** *Real-time object detection tool for visually impaired*
  - **• Portfolio Website –** *Selected as best project among global entries*
- Solved **200+ DSA Problems** across platforms including **LeetCode**, **Codeforces**, and **GeeksforGeeks**
- Certified in ***Advanced SQL*** – *HackerRank,* **Python** - *Cisco,* **Ethereum Blockchain** – *HackQuest*