

Chitesh jindal

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EDUCATION

Indian Institute of Technology Roorkee — BSMS, Mathematics & Computing

Expected Graduation: 2030

- **JEE Advanced 2025** — All India Rank: 1317
- **JEE Main 2025** — 99.932 percentile

SKILLS

Programming Languages: C++ (C++14), Python

Platforms & Tools: Linux (Fedora), Git, Arduino IDE

Hardware & Electronics: Arduino UNO, IR sensors, LCD interfacing, motor drivers, digital logic

Web Development: HTML, CSS, JavaScript

Core Competencies: Problem-solving, modular system design, hardware-software integration, technical documentation

PROJECTS

Coin Counter System Arduino & Embedded Systems

- Integrated IR sensors with Arduino UNO for reliable coin detection and counting
- Implemented hardware-software communication with LCD display and motor driver control
- Debugged initialization sequences and optimized detection logic for real-time performance
- Designed modular, reproducible architecture for scalability

Web Development Projects

- Built responsive websites using HTML, CSS, and JavaScript
- Focused on clean UI/UX design, modular code structure, and cross-browser compatibility
- Implemented interactive features and optimized for performance

Electronics & Hardware Projects

- Developed sensor-based systems and Arduino prototypes
- Experimented with circuit design, component integration, and system debugging

ACHIEVEMENTS

- **JEE Advanced 2025** — All India Rank: 1317
- **JEE Main 2025** — 99.932 percentile
- Demonstrated strong problem-solving ability and analytical thinking

INTERESTS & GOALS

- Open-source contribution in Linux systems, compilers, and embedded development
- Building scalable, reproducible solutions in hardware-software integration
- Exploring mathematical computing, optimization techniques, and AI for science
- Learning graph theory, network analysis, and advanced algorithms

ADDITIONAL INFORMATION

Technical Interests: System programming, mathematical modeling, network analysis, embedded systems

Current Focus: Building foundational skills in algorithms, data structures, and systems programming while exploring hands-on hardware projects