

# Chirag Singh Manral

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 Portfolio

## Education

**Bhagwan Parshuram Institute of Technology, GGSIPU**  
*Bachelor of Technology in Computer Science and Engineering*

*New Delhi*

*Sept 2021 – Aug 2025*

- **CGPA:** 8.16/10.0
- **Coursework:** Data Structures and Algorithms, Database Management System, Object-Oriented Programming System, Computer Networks, Operating System, Computer Architecture.

## Experience

**Software Engineer Trainee**  
*Compro Technologies*

*South Ext, New Delhi*  
*Jan 2025 – Jul 2025*

- Improved page load performance by **15%** and enhanced platform accessibility by **developing and optimizing** responsive web pages for **CambridgeOne.org** using **HTML, CSS, SCSS, Bootstrap, AngularJS, and Node.js**.
- Reduced user-reported issues by **20% by conducting** comprehensive **functional and UI testing** across *Cambridge One* and *Blackboard* environments to identify and fix usability gaps early.
- Accelerated onboarding and coding efficiency **by 25% by building** personal **MEAN stack projects** alongside internship tasks to deepen understanding of production-level architecture.
- Helped the team deliver sprint releases **10% faster by collaborating** closely with agile teams, participating in daily stand-ups, and aligning deliverables with client expectations.

## Projects

**Safe Notes**  | *HTML, CSS, JavaScript, Angular, NodeJS, ExpressJS, MongoDB*

 Live

- Built a secure notes application using the **MEAN stack**, achieving **100% JWT-based authentication reliability** by implementing access and refresh tokens for every user session.
- Enhanced login stability and user retention by integrating **auto-renewal of tokens through Angular interceptors**, ensuring uninterrupted access during long sessions.
- Delivered a clean, responsive interface that scored **90+ in Lighthouse performance audits** by combining **Angular Material** with **SCSS-driven design consistency**.

**Shorten URL**  | *HTML, CSS, JavaScript, Angular, NodeJS, ExpressJS, MongoDB*

 Live

- Developed a **link-shortening platform** with **NodeJS, ExpressJS, and MongoDB**, reducing average redirect time to **under 100ms** through efficient route handling and caching.
- Strengthened security with **JWT-based authentication** and route protection, achieving **100% validation success** in testing.
- Deployed the project using **Vercel (frontend)** and **Render (backend)** with environment-based configuration, ensuring **zero downtime and smooth CI/CD integration**.

## Achievements

- Solved **100+ coding problems** on various platforms.
- Completed a **DSA + full-stack development bootcamp** from **Coding Blocks**.
- Proficient in using the **Linux operating system**, including **terminal-based navigation, file permissions, and basic shell scripting**.

## Technical Skills

**Languages:** C, C++, Javascript, TypeScript, HTML/CSS/SCSS.

**Technologies/Frameworks:** Bootstrap, Angular, Node.js, Express.js, MongoDB.

**Developer Tools:** VS Code, Github, GIT, Postman.

**Non-Technical Skills:** Problem Solving, Collaboration, Ownership, Communication, Teamwork, Adaptability, Continuous Learning, Time Management, Leadership.