

Chirag Singh Manral

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in Chirag Singh Manral

🌐 Chiragmanral

🌐 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.