Satvik Chandra

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EXPERIENCE

Intern Trainee — June 2025 – Present
Indian Institute of Technology Bombay — *Mumbai, India*

- Developed a custom GIS-based public transport accessibility tool in Python to automate spatial accessibility analysis based on road and metro networks.
- Built core logic using graph data structures, Python dictionaries, and min- heaps (priority queues) to implement optimized routing and multi-point reachability analysis.
- Used Qt Designer to create a full-featured user interface with dropdowns, layer selectors, and travel time parameters for flexible user input.
- Built a full-stack web app using React.js and FastAPI to gather, store, analyze urban commuter choices, and save the survey responses.

EDUCATION

Graphic Era (Deemed to be University) — Uttarakhand, India
Master of Computer Applications — CGPA - 8.55 — *June. 2022 – June 2024*

Graphic Era (Deemed to be University) — Uttarakhand, India
Bachelor of Computer Applications — CGPA - 8.61 — *June. 2019 – June 2022*

PROJECTS

TsTurbo | *Node.js, TypeScript, HTTP, File Handling, TCP Sockets* — GitHub

- Built a Node.js and TypeScript web server from scratch.
- Implemented HTTP Range Requests and Chunked Transfer Encoding.
- Used non-blocking file handling for efficient data streaming.
- Designed custom request parsing, header validation, and error handling.

lb.py | *Python, Socket, Threading, Computer Network, Algorithms* — GitHub

- Developed a multi-threaded load balancer from scratch.
- Implemented Round Robin algorithm for load distribution.
- Added health check functionality to manage server availability.
- Utilized multi-threading for improved execution speed and response time.

Limktree | *Next.js, PostgreSQL, Prisma, Tailwind CSS, Cloudinary, Recoil, Zod, Typescript* — GitHub

- Created a platform for sharing multiple links via a single customizable URL.
- Integrated Next.js for frontend and server actions.
- Employed Cloudinary for image uploads and Tailwind CSS for styling.
- Utilized Zod for input validations and JWT for authentication.
- Managed state using Recoil.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres, MySQL), NoSQL (MongoDB, Redis), JavaScript, Typescript, HTML/CSS
Frameworks: React, Next.js, Tailwind CSS, shadcn/ui, Node.js, Express, FastAPI, Elysia.js, Hono, RESTful APIs, GraphQL
Developer Tools & Platforms: Linux, Git, Docker, Postman, VS Code, PyCharm
Libraries: pandas, NumPy, Matplotlib

CERTIFICATIONS

Google Data Analytics — March 2025
Google Data Analytics Professional — *Certificate*