

# Mani Chand A

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Leetcode: <https://leetcode.com/u/maniabburi486/>

## Education

**Indian Institute of Technology, Bhubaneswar**

B.Tech Electronics and Communication Engineering

GPA: 8.53

Aug. 2023 - present

**Sri Chaitanya PU College, Karnataka**

Pre-University Exam, PUE Board

Percentage: 85.1%

June 2021 - June 2023

## Projects

### Semantra

AI, Data Processing

- Developed an AI-powered conversational help bot capable of resolving user queries accurately from the ISRO Satellite data portal using knowledge graphs, embeddings, and hybrid retrieval.
- Integrated a conversational UI with multi-turn query handling using Google A2A protocol, AG-UI, and PostGIS for location-aware search.

### 3-Key Keypad

PCB Design

- Designed and developed a compact 3-key RGB keypad circuit using KiCad, suitable for microcontroller input.
- Designed a 2-layer PCB layout with optimized routing and minimal footprint for efficient fabrication. Simulated and validated the design to ensure signal integrity and debounce handling

**Tools:** KiCad, Schematic Capture, Circuit Simulation

### Grocery Delivery

Web Development

- Developed a Web2 grocery delivery system connecting college students with local sellers.
- Built student and seller portals with inventory management, delivery slot selection, and personalized recommendations.

### Pong Game

Game Development

- Developed a classic **Pong game** using **Unity** and its **C# Scripting**, demonstrating proficiency in game development fundamentals.
- It Focuses on core gameplay loops, collision detection, and user interface elements. **Tech Stack:** HTML, CSS, JavaScript, PHP, MySQL

## Course Projects

- Implementation of UART on a Basys-3 FPGA Board

Digital Electronics

## Key Skills

- **Programming Languages:** C, C++, C#, Python, HTML, CSS, JS, Verilog
- **Tools:** AutoCAD, KiCAD, Matlab, GitHub
- **Framework/Libraries:** Pandas, Numpy, ReactJS, NodeJS
- **Soft Skills:** Communication, Team Work, Adaptability, Creativity

## Position of Responsibility

### Associate Member

(Oct 2023 - present)

Oracle, IIT Bhubaneswar

- Active member contributing to event management and outreach activities

### Core Team Member

(October 2023 - December 2024)

E-Summit Fest, IIT Bhubaneswar

- Contributed to planning, organizing, and executing E-Summit events.

## Extra-Curricular Activities

- Actively engaged as a member of the Oracle Journalism Club and participated in Robotics Club, contributing to various initiatives.
- Osu! player, currently ranked among top 400k globally.