Akshit Soni

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EDUCATION

- **Dhirubhai Ambani Institute of Information and Communication Technology** — Gandhinagar, India
  B.Tech - *Information and Communication Technology CGPA: 8.37* — 2015 – Present
- **Noble International School** — Bhilwara, India
  Intermediate/+2 - *Central Board of Secondary Education (CBSE) Percentage: 93%* — 2013 – 2015

EXPERIENCE

- **Microsoft** — Hyderabad, India
  Software Development Intern — May 2018 - July 2018
  - **Edge Browser (Saga East R&D India team)**: Worked to enhance the Web Notes (Annotate web pages) functionality in Edge to retain fidelity and interactivity of web content. Designed and developed the feature using an agile methodology. Worked using C++ as the primary programming language.

- **Indian Institute of Technology, Bombay** — Mumbai, India
  Software Development Intern — May 2017 - July 2017
  - **Physics Interactive Animation Creator**: Worked with a team of 7 interns to develop an animation framework. This framework enables to create 3D animation in Three.Js by using drag and drop interface. This reduced a significant amount of time and effort that was required to create the animation.

- **DA-IICT** — Gandhinagar, India
  Teaching Assistant — Aug 2018 - Dec 2018
  - **Calculus**: Conducted sessions twice a week for first-year students under academic probation. The work included teaching important concepts, solving doubts and conducting quizzes in order to help them improve their grades.

PROJECTS

- **Recommendation System**: Developed a collaborative recommender system that recommends university elective courses to the students based on their grades obtained in core courses.
- **Parallelization of Dijkstra algorithm**: Designed and implemented a parallelized Dijkstra algorithm algorithm in CUDA C to run on GPU.
- **Artificial intelligent agent for Tic-Tac-Toe**: Implemented MiniMax, MiniMax with Alpha Beta pruning and Monte Carlo tree search algorithm for artificial intelligent agent to play N×N Tic-Tac-Toe with an interactive UI to play the game.
- **Database Management for RTO**: Designed and implemented database management model of regional transport office in PostGresSQL.
- **Collaborative real time whiteboard**: Created a collaborative real time whiteboard app for teaching and sharing ideas. Built with PubNub, AngularJS and MaterializeCSS.

PROGRAMMING SKILLS

- **Languages**: C/C++, Javascript, Python, SQL   **Others**: Visual Studio, Git, HTML, CSS, ThreeJs

POSITION OF RESPONSIBILITIES

- Captain, DA-IICT basketball team
- Execomm Member of IEEE Industry Applications Society Student Branch, DA-IICT
- Co-ordinator of Concours, annual sports fest of DA-IICT

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Database Management System
- Operating Systems
- Computer Networks
- System Software
- Probability and Statistics
- Software Engineering
- Graph Theory
- Introduction to GPU programming
- Algebraic Structures
- Logic of Inference
- Introduction to Machine Learning (NPTEL)