EDUCATION

Year	Degree	Institute	% / GPA
2013-2014	10 th Grade	Army Public School, Bhopal	10 CGPA
2015-2016	12 th Grade	Army Public School, Bhopal	95.2%
2016-2020	B.E. in Computer	Army Institute of Technology,	8.09 SGPA (Sem. 5-6)
(Present)	Engineering	Pune	9.02 SGPA (Avg. (Sem. 1–6))

INTERNSHIP EXPERIENCE

Software Engineering Intern

Tarana Wireless Inc.

3rd June 2019 – 3rd Aug 2019

- Added multiple utility features to the services running on Tarana Devices. Used C++ for doing the same.
- Re-wrote and modified topological sort for the dependency graph between modules for ordering startup.
- Implemented a data structure for dynamically changing order of rows while populating a statistics table.
- Redesigned all the statistics tables and made them use Libfort library for better readability.
- Learnt: GDB, Bazel, gTest, gMock, OOPs(C++), networking basics (TCP/IP) and working on Linux based OS.

TECHNICAL EXPERIENCE

PROJECTS

- **Bloom Filters:** Implemented a probabilistic data structure for simulating the application of checking if a username is taken or not. Language used: **C++**.
- Chess AI: Implemented a chess player using Artificial Intelligence (Min-Max algorithm and alpha beta pruning). Language used: C++. Library used for visual graphics: OpenGL.
- Car Dodging Game: A single player car dodging game for Android. Game Engine: Unity 3D.

KNOWLEDGE OF ADVANCE DATA STRUCTURES AND ALGORITHMS

- Data Structures: Fenwick Tree, DSU, Tries, Sparse Table, BST, AVL Tree, Segment Tree, Merge Sort Tree etc.
- Algorithms: Searching, Sorting, Dijkstra, Prims, Kruskal, Strongly Connected Components, Sqrt Decomposition, Heavy Light Decomposition, Mo's Algorithm, Cycle detection, Bridge Finding, Topological Sorting, RMQ, KMP, Rolling Hash, Centroid Decomposition, Binary Lifting, Aho-Corasick etc.

HONORS AND ACHIEVEMENTS

- Max. Rating of 1912(Candidate Master) on Codeforces. Username: smokescreen.
- 1st Candidate Master from Pune. Amongst top 3 rated competitive coders of the city.
- Secured 5th position in ACM-ICPC '20 at IIIT Pune-Gwalior regionals and 23rd in ACM-ICPC '19 at IIT Kharagpur regionals. Secured 28th position in ACM-ICPC Asia West Continent Finals '20.
- Ranked 75th(Round H) and 231st(Round E) in Google Kickstart. Qualified Facebook Hacker Cup '19 Round 1.
- Secured 1st and 2nd positions in a lot of events (Codered, Codifica, Pulzion, Neo, Mindspark, etc) across all top engineering colleges of Pune, like COEP, PICT, AIT, Cummins, MIT, DY Patil consistently for 3 years.
- Won Cummins hackathon sponsored and judged by IBM.

LEADERSHIP AND EXPERIENCE

- Was the head of the Competitive Coding Cell of AIT, Pune (2018-19) and have helped in organizing, testing and preparing inter and intra college coding events.
- Take monthly classes of third year, second year and first year students on Data Structures, Algorithms and Problem Solving. Share tricks and motivate them to do better.

SKILLS AND TECHNOLOGIES

- Languages: C++, C, Java (Basics), MySQL (Basics)
- Subjects: Data Structures, Algorithms, Operating Systems, DBMS, Computer Networks and OOPs.
- Worked on Linux, Windows and use Git for Version Control.

INTERESTS

- Solving problems. Learning new Data Structures and Algorithms. Competitive Programming.
- Others: Sketching, solving Sudoku.