

## EDUCATION

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- **Indian Institute of Information Technology, Una** Una, HP, India  
*Bachelor of Technology in Computer Science, CGPA: 8.11 / 10.0* *Aug. 2016 – May 2020*

## EXPERIENCE

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- **Intugine Technologies** Bangalore, India  
*Software Developer Intern (remote)* *Aug. 2018 - Present*
  - Worked on real-time GPS data to build a deep learning platform to predict ETA of freight trucks on Indian highways where Google maps fail badly. This ETA would be used by clients to manage tariffs and make business decisions.
  - Built a system for easy performance analysis of the deep learning model for the real-time GPS data. Used this analysis to improve the accuracy of the deep learning model.
  - Worked on route optimization problems for several e-commerce clients. Used techniques such as k-clustering, travelling salesman approximation to find the optimal paths and tasks division among delivery trucks.

## SKILLS

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- **Programming Languages:** C, C++, Python, JavaScript
- **Frameworks and Tools:** Flask, Keras, Git, GNU/Linux

## PROJECTS

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- **2048 Bot:** A 2048 game bot that plays the game using depth limited expectiMax search algorithm and some custom heuristics. Implemented the bot in C++ and the GUI in Python using PyGame and connected them using self-defined protocols.
- **BingBot:** A chatbot that talks sarcastically. Parsed and cleaned reddit comments data and used it to train the seq2seq model which was implemented using the **TensorFlow nmt** tutorial. Deployed the bot and integrated it to Google assistant platform.
- **IntraVNC:** An implementation of VNC server and client that works over local network. Implemented the RFB protocol and different types of encoding such as RAW, CopyRect, Hextile.
- **Open-Source Contributions:** Worked on **ListenBrainz** project of **MetaBrainz** Organization. Fixed issues and added unit tests. Pull requests for the same can be found **here**.

## ACHIEVEMENTS

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- **ACM-ICPC 2018:** Member of team RootNodes, **securing a rank of 25** out of 168 teams in the Kolkata Regional of the contest. More than 3000 teams applied for the online round.
- **Competitive Programming:**
  - **Codeforces - uditgulati0:** Highest Rating: **1908[Candidate master]**. Ranked 3rd in India (42nd globally) in the Educational Round 35[Div 2].
  - **CodeChef - uditgulati0:** Highest Rating: **2272[6 stars]**. Ranked in top 20 Indians in Sept. 2017, Oct. 2017 and Dec. 2017 Long Challenge. Ranked 1st in top challenge problem solvers (Oct. 2017 Long Challenge) in India (6th globally).
  - **Topcoder - uditgulati0:** Highest rating: **1310[Div 1]**.
  - **SPOJ - uditgulati0:** Having under 1200 rank globally with 70 problems solved.

## CO-CURRICULAR

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- **GLUG-NITH:** Organized **Software Freedom Day** event involving introduction of more than 100 freshmen to the world of Open Source followed by Linux installation fest. Organized various other events promoting open source software and culture.
- **CSEC-NITH:** Hosted 10th and 12th iteration of CSEC's monthly programming contest **Heuristics**. Conducted regular weekly programming meets as part of the departmental Computer Science society at NITH.
- **Team .EXE:** Hosted 6th iteration of programming contest **Game of Codes** and **Code Golf** event during the annual technical fest **NIMBUS 2k18** as part of the departmental Computer Science team at NITH.