# Vijay Jangal

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## EDUCATION

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| **Indian Institute of Technology Guwahati, India** | Jul 2019 - Jun 2023 |
| Bachelors of Technology in CST | GPA: 7.67/10.0 |

## EXPERIENCE

**BigBites** — May 2022 - July 2022
Internship — Bengaluru, India
- Worked on identifying optimal set of locations for opening 30 new cloud kitchens.
- Used **genetic algorithm** along with **greedy algorithms** to determine optimal locations based on order history.
- Solution laid the basis for company's in-house food delivery app.

**Stealth** — Nov 2023 - Jan 2023
React-native Intern — Remote
- **Enhanced and implemented** of multiple UI functionalities of gaming application.
- Conducted comprehensive **Usability Testing** of the UI using **TestFlight**, leading to the identification and resolution of numerous application bugs.

## PROJECTS

**GameSpace** — May 2021 - July 2021
Group Project — https://bit.ly/3TKsPAN
- Created a gaming website from scratch with five games **(Chess, Tic-tac-toe, Sudoku, 2048, Minesweeper)**, incorporating advanced algorithms **(Mini-Max, Alpha-Beta pruning, Backtracking)** for enhanced gameplay.
- Games accessible in Online, Offline, and v/s Computer modes with varying difficulty levels (Easy, Medium, and Hard).
- Built a **Chess Engine (ELO Rating $\sim$ 1800)**, implemented an unbeatable mode in Tic-tac-toe, and developed a Sudoku solver. Incorporated Websockets for multiplayer functionality and chat, enhancing user engagement.

**Predicting PES using neural network and regression model** — August 2022 - May 2023
Prof. Aditya N Panda, B.Tech project, IIT Guwahati — https://bit.ly/3u8kgaN
- Developed a model using **Artificial Neural Network (ANN)** and **Gaussian Process Regression (GPR) models** to predict potential energy surfaces.
- Used Python libraries (**Keras**, Matplotlib, Pandas), to develop machine learning models and organize/visualize data.
- Utilized the GPR model to feed selected data points into the ANN model, achieving a model accuracy of 96%.

**Spotify-clone** — August 2023 - September 2023
Self Project — https://bit.ly/45snQsM
- Created a Spotify clone with **React.js & Context API**, integrating the Spotify API for live playlist & track data.
- Implemented React Context for efficient global state management, ensuring consistent data flow across components.
- Incorporated Spotify account authentication for personalized user experiences and achieved a responsive design for seamless interactions.

**Social media website** — August 2023 - September 2023
Self-Project — https://bit.ly/45snQsM
- Developed a website facilitating the creation and interaction with posts.
- Implemented functionalities to allow users to like, comment, search, and accept requests.

## ACHIEVEMENTS

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| **Data Structures** | Practiced more than **1000** problems on different platforms like Leetcode, CSES. | |
| **Competitive Programming** | **Specialist** on Codeforces Platform. | |
| **JEE Advanced** | Secured **top 3%** among 0.24 million candidates. | 2019 |
| **JEE Mains** | Secured rank in the **top 0.7%** among 1 million candidates. | 2019 |
| **Senior Secondary Education** | Secured **299 marks** out of 300 in PCM. | 2019 |
| **Secondary Education** | Awarded for securing 2nd rank in district. | 2017 |

## TECHNICAL SKILLS

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| **Programming languages:** C++, C, Python, Solidity, Java | **Web Technologies:** HTML, CSS, JavaScript, ReactJs , NodeJs, SpringBoot* |
| **ML/AI:** Numpy, Pandas, Matplotlib | **Miscellaneous:** SQL, Git, Latex, Google Colab |

## RELEVENT COURSES

**Computer Science:**  Data Structures and Algorithms , DBMS, OOPS
**Web Development:** Blockchain Development , Front-end development, Back-end development