

ANISH TEJA BRAMHAJOSYULA

[✉ Anish.Teja@iiitb.ac.in](mailto:Anish.Teja@iiitb.ac.in) [GitHub/AnishBramha](https://github.com/AnishBramha) [LinkedIn](https://www.linkedin.com/in/anish-teja-bramha-josyula/) [Website](https://anish-teja-bramha-josyula.wixsite.com/) [+91 8919160172](tel:+918919160172)

Education

International Institute of Information Technology, Bangalore

Integrated Master/Dual Degree (BTech + MTech) in Computer Science and Engineering

August 2024 – July 2029

CGPA: 3.73 / 4.0

Projects

ParcelTrack | Java, Springboot, MongoDB, HTML/CSS, React | [\[Link\]](#)

November – December 2025

- Created a Java Springboot application to automatically manage parcels at receptions.
- Integrated MS Auth for login and real-time QR ID verification for package pickup.
- The back-end utilises MongoDB for storage and Cronjob for periodic bulk package updates.
- Provides an interface for administrator to manage guards, and a front-end for guards to manage incoming and outgoing packages at the reception.

Granthomukhim | Python, JSON | [\[Link\]](#)

November 2025

- Designed a context-free non-semantic word generator for a custom natural language (classified morphologically and phonetically as agglutinative-fusional, Indo-Aryan-Dravidian).
- Derivational grammar represented using the Chomsky Normal Form (CNF) via JSON and parsed to add appropriate inflections and affixes to account for person, number, case, gender, subject, object, tense and aspect/mood.
- Applies *sandhi* after generation according to a set of rules based on proximal and feasible phonemes.
- Uses a system of atomic roots to form stems and add modifiers to form stems for parts of speech, with features such as reduplication and sound changes to account for nuanced semantic meaning, and subsequent affixes to produce function.

Cscript Interpreter | C++, Python | [\[Link\]](#)

October 2025 – Present

- Implemented a tree-walk interpreter in C++ using a metaprogrammed visitor pattern method for a custom high-level, dynamic, interpreted, weakly-typed scripting language with a Lisp-1 global namespace system.
- Integrated an REPL for quick expression and statement evaluation. The interpreter can also run input script files.
- Implemented a bottom-up parser for the abstract syntax tree to correctly traverse the hierarchy of expressions, statements, expression-statements and blocks. This includes block scoping/shadowing and operator precedence.
- Designed a custom superclass ('object') using tagged unions as a cosmic container for primitive data types.

PRiL – Text Editor | C++ | [\[Link\]](#)

August 2025

- Designed a simple GUI-based text-editor with universal file support.
- Used the wxWidgets graphics library for clean, native UI elements.
- Integrated basic features such as file picker, memory and saving.

RDT & TCP Simulation | C++, Python | [\[Link\]](#)

April 2025

- Designed a simulation for the RDT 2.0 and 3.0 protocol, with real-time packet-losses, drops and error detection.
- Simulated packet losses and delays using multithreading – sleep for a threshold to trigger a scenario.
- Error detection mechanism implemented with a checksum and checksum corruption mechanism simulated at random.

Technical Skills

Languages: C, C++, Python, MIT Scheme, Haskell, Java

Technologies/Frameworks: Numpy, Matplotlib, wxWidgets, Springboot

Tools and Miscellaneous: Canva, Vim, Neovim, Emacs, VS Code, IntelliJ IDEA, Jupyter Notebook, Google Collab, Unix, ZSH, Bash, Markdown, Make, Git, GitHub

Relevant Coursework

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|-------------------|------------------|----------------------------|-------------------------|
| • Data Structures | • Linear Algebra | • Calculus & ODEs | • Optimisation |
| • Algorithms | • C, C++, Python | • Probability & Statistics | • Computer Architecture |

Achievements

Dean's Merit List Scholarship: Received a scholarship of ₹50,000 for academic performance during the year 2024-25.

JEE (Main): All India Rank 4616 (Open Category)

Leadership / Extracurricular

Pioneers Math Club

January 2025 – Present

Core Member

- Organised events with mathematics as the central theme within the institute for Synergy and Infin8 fests in 2024.
- Organised and participated in mathematics sessions on Real Analysis and Machine Learning.

Quiz Society

January 2025 – Present

Core Member

- Organised quizzes within the institute by managing question curation, presentation and quizmastering.
- Participated in external quizzes.