Anirudh Narsipur

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EDUCATION

Brown University, *Sc.B. Computer Science* Providence, RI | **Expected Graduation May 2024**

Coursework:
Computer Science: Data Structures/Algorithms, Systems, Programming Languages, Formal Methods, Bioinformatics
Mathematics: Statistics, Linear/Abstract Algebra, Multivariable Calculus
Biology: Genetics, Techniques in DNA Analysis

EXPERIENCE

Myraa Technologies, (Intern) Virtual | June 2020 - Aug 2020

- Developed an ultra-low resource keyword recognition system for Android devices using Java/C++
- Deployed K-Nearest Neighbors with Dynamic Time Warping for core recognition system
- Designed and developed keyword recognition pipeline and associated user interface.

Brown U Teaching Assistant (Formal Proof and Verification) June 2020 - Present

- Part of course staff teaching inaugural course on using Lean to formalize mathematics and verify program behavior.
- Assisted in course design, grading and feedback of weekly problems sets and held office hours.

Brown U AI Lab Research Assistant Oct 2020 - April 2021

- Worked on improving search transparency in neural nets and refinements to transformer models for time series under Prof Eickhoff.

Projects

Distributed Concurrent Server

- Implemented core of a modern distributed multi-threaded server in C++ using the gRPC framework

Pyret Matrix Library

- Developed a matrix library for Pyret, a scripted functional programming language under Prof. Krishnamurthi.

FallDetector

- Designed and developed an Android app that uses Deep Learning to detect falls in elders (a common cause of serious injury) and send out emergency alerts

Operating System Verification

- Formally modeled and verified key properties of Operating System memory management such as process isolation with the aid of an SAT solver.

Pivot

- Developed Pivot, an assistive toolbox for online learning with features such as transcription, polling using React for IvyHacks 2020. *Awarded*

Competitive Programming

- Qualified to national round (India) of International Computing Olympiad. Led high school team to success at numerous competitions.

SKILLS & INTERESTS

Programming: Python, Java, C/C++, Javascript,Lean, Racket
Tools: Git, Linux, GDB, Vim, Pandas, NumPy, TensorFlow
Language: English, Hindi, Kannada
Clubs: Formula Racing, Debating Union