

Letter of Recommendation for Manish Krishna Kandrakota

To the Admissions Committee,

I am pleased to write this letter of recommendation for **Manish Krishna Kandrakota**, whom I have taught across multiple core Computer Science subjects in the Department of Computer Science and Engineering at Sreenidhi Institute of Science and Technology. I instructed Manish in **Object-Oriented Programming with Java, Operating Systems, Compiler Design and Automata Theory**, along with their **corresponding laboratory courses**, which allowed me to evaluate both his theoretical understanding and hands-on implementation skills over an extended period.

Manish consistently ranked among the strongest students in these courses, particularly in subjects that demand abstract reasoning and system-level thinking. In **Operating Systems**, both in theory and laboratory work, he demonstrated a clear understanding of concurrency, scheduling, memory management, and process synchronization, often reasoning beyond textbook solutions to consider performance trade-offs and edge cases. In **Automata Theory and Compiler Design**, he showed an unusual level of comfort with formal models, parsing techniques, and program translation pipelines, and was able to implement these concepts effectively in practical lab assignments—areas that many undergraduates find challenging.

What distinguishes Manish is his ability to translate foundational theory into well-structured, functioning systems. This was especially evident when I reviewed his independent projects such as **CodeChecker**, a Java-based static analysis tool, and **SecureFlow**, a static taint-analysis system designed to detect unsafe data flows and **Py2C**, a lightweight Python to C optimizer. These systems reflect a strong grasp of abstract syntax trees, control-flow reasoning, and soundness considerations—concepts rooted directly in compiler theory, automata, and program analysis. His implementations demonstrate not only correctness, but also architectural clarity and extensibility.

In **Object-Oriented Programming with Java**, he consistently wrote modular, maintainable code and exhibited a disciplined approach to design and testing across both coursework and lab sessions. Across all laboratory courses under my supervision, he stood out for his ability to independently design solutions, debug complex issues, and deliver robust implementations within given constraints—placing him well above the average undergraduate student I have taught.

Based on my experience teaching Manish across these demanding core subjects and their associated laboratory components, I can state with confidence that he possesses the intellectual preparation, technical depth, and practical competence required for a rigorous graduate program in Computer Science. I strongly recommend **Manish Krishna Kandrakota** for admission to your MS or MEng program and am confident that he will contribute meaningfully to both coursework and research-driven environments.

Sincerely, 

Prof. Ch. Srinath Reddy

Department of Computer Science and Engineering

Sreenidhi Institute of Science and Technology

Email: srinath.c@sreenidhi.edu.in