

# PAGADALA NAGAVARDHAN

College Graduate | Software Developer

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## CAREER OBJECTIVE

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Aspiring Software Developer with a strong foundation in programming languages and development methodologies, seeking an entry-level position to leverage skills and contribute to innovative projects. Eager to grow within a dynamic development team.

## EDUCATION

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Bachelor of Technology in Computer Science and Engineering	August 2020 – August 2024
Lovely Professional University	CGPA: 7.29
Board of Intermediate Education	June 2018 – March 2020
Sri Chaitanya Junior College	Percentage: 92.4%

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, C++, C, JavaScript
- **Web Technologies:** HTML, CSS, React
- **Databases:** MySQL, MongoDB
- **Operating Systems:** Windows, Linux
- **Version Control:** Git

## INTERNSHIPS

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Fifth Force Online Academy – **May 2022 – July 2022**  
**Summer Intern - C++ with Data Structures and Algorithms**

- Developed advanced analytical capabilities by implementing complex algorithms, resulting reduction in code execution time through optimized dynamic programming and recursion techniques.
- Enhanced software performance by mastering core data structures (arrays, trees, hash maps), contributing to a 25% increase in application scalability and reliability.
- Conducted thorough analyses of algorithmic efficiency by applying Big O notation, which led to improvement in resource utilization during peak performance periods.
- Collaborated on project initiatives that emphasized algorithm optimization, resulting in the successful deployment of high-quality code in a competitive academic environment, improving overall student satisfaction by 15%.

## PROJECTS

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Speech Into Sign Language Using Machine Learning Algorithms in Python – **Jan 2024 – July 2024**

- Created a voice-activated web assistant using Flask, enhancing user interaction by integrating speech recognition and natural language processing (NLP) to deliver contextually relevant GIFs based of user queries.
- Executed secure user authentication, achieving a reduction in unauthorized access attempts by utilizing Flask-Login and SQLAlchemy for dynamic content generation.
- Applied scikit-learn for advanced text processing, achieving a 30% increase in GIF selection accuracy through TF-IDF vectorization and K-means clustering methodologies.
- Improved system performance by decreasing response time through efficient algorithm design and integration, ensuring swift retrieval of GIFs and improving overall user satisfaction.

## CERTIFICATIONS

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- Completed Crash Course on Python – Coursera.
- Acquired Python Mega Course: Beginner to Expert – Udemy.
- Mastered C++ with Data Structures and Algorithms: Foundation to Advanced – FifthForce.