

# Sri Nikhil Bandi

Undergraduate Student at Penn State University

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## Profile

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Electrical Engineering student at Penn State with hands-on experience in AI/ML, full-stack web applications, and scalable system design. Built solutions integrating transformer models, NLP, and neural speech synthesis. Skilled in debugging, optimization, and team collaboration, with leadership experience in student organizations. Passionate about GPU computing, parallel processing, and applying AI to real-world challenges. Seeking to contribute technical expertise and creativity to NVIDIA's AI and accelerated computing initiatives.

## Projects

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### PDF-to-Audiobook Conversion Platform,

*Technologies: Python, Flask, JavaScript, HTML/CSS, Text-to-Speech APIs, NLP Libraries*

- Built a full-stack web platform that converts PDF files into natural-sounding audiobooks, improving accessibility for visually impaired users.
- Designed custom parsing algorithms, achieving ~80% text extraction accuracy.
- Integrated Google's Text-to-Speech API and developed an NLP-based summarization module to generate concise, high-quality summaries.
- Optimized memory usage, reducing processing time by 40% for large documents.
- Tech stack: Python, Flask, JavaScript, Hugging Face Transformers, REST APIs.

## Professional Experience

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### Software Developer, *Software Developer, ASME, Software Developer*

2025 – Current

University Park, PA

- Integrated object-oriented design and software development in Python into projects to support sonar sensors with vibration motors.
- Software Tested code to identify errors and fix them efficiently.
- Provided technical support for users of the software system.
- Assessed code during the testing stage and meetings to determine potential bugs and improvements.
- Collaborated with team members to ensure successful project completion.

### Student Tech Assistant, Cumberland Valley High School

- Assisted with customer requests and answered questions to improve satisfaction for over 500 students and faculty members.
- Utilized various software and tools to streamline processes and optimize performance.
- Conducted testing of software and systems to ensure quality and reliability.
- Operated equipment and machinery according to safety guidelines.
- Provided excellent service and attention to customers when face-to-face or through online conversations.

### Math Club President, *Math Club President, Cumberland Valley High School*

- Managed 30+ student members, organizing weekly meetings and events.
- Conducted regular feedback sessions to ensure member satisfaction.

- Enhanced communication via newsletters, email updates, and promotional materials.
- Fostered strong relationships with faculty to align club goals with academics.
- Organized peer tutoring sessions, aiding 20+ students in AP Pre-Calculus.

## Skills

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- **Programming Languages:** Python, JavaScript, Java, C++, HTML/CSS
- **Frameworks & Libraries:** Flask, TensorFlow, Hugging Face Transformers, OpenCV
- **AI/ML Technologies:** Natural Language Processing, Text-to-Speech, Machine Learning, Transformer Models, BART-CNN
- **Cloud & Tools:** AWS, Git, REST APIs
- **Areas of Interest:** Artificial Intelligence, Computer Vision, Audio Processing, Full-Stack Development

## Education

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### Electrical Engineering, Penn State University

Currently enrolled in the College of Engineering at Penn State University, majoring in Electrical Engineering.

Present – 2028

University Park, PA,  
United States

### High School Diploma, *High School Diploma, Cumberland Valley High School*

2024

Mechanicsburg, PA,  
United States