

# JAWAHAR SAI NATHANI

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## EDUCATION

Texas A&M University, College Station Jan 2024 – Present  
Master of Science | Computer Science and Engineering | GPA: 4.0/4.0

Indian Institute of Technology Tirupati Aug 2018 – May 2022  
Bachelor of Technology | Computer Science and Engineering

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## WORK EXPERIENCE

Software Engineer, GEP Solutions Private Limited India July 2022 – Nov 2023

- Engaged in building .NET Core RESTful APIs and Angular projects. Led the data migration of a complete ASN full-stack application to a Low-Code Platform using Microsoft Azure Databricks and Blob Storage.
- Worked on software design patterns, and backend to frontend integration for a Notification Engine. Utilized MongoDB for executing complex aggregations and shell commands to efficiently manage data.
- Awarded with SPOT RECOGNITION [[Certification](#)] and CATALYST [[Certification](#)] for excellent commitment.

Technology Intern, GEP Solutions Private Limited India May 2021 – July 2021

- Engaged with Angular CLI, Asp.net, and SQL technologies.
- Orchestrated the design and development of an Angular CLI Web Page alongside an Asp.net server method. Angular CLI component does post and get requests to an Asp.net server which communicates with diverse SQL databases, contingent on user domain.
- Secured 1st prize in the techathon held for GEP interns across India. [[Certification](#)]

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## PROJECTS

AKSHARA Annotator Sept 2021 – June 2022

ReactJs | Django | Deep Learning | MongoDB | PyTorch | Flutter | [Code](#)

Built a web-based crowdsourcing application to digitize and store handwritten medical prescriptions, integrating a text layer feature to optimize document search. Developed a mobile application for scanning documents.

- Utilized subregions of each single annotation to train a subregion-detection OCR model. These trained models can then be grouped into multiple model pools as per specific requirements.
- Single or multiple model pools can be employed to annotate handwritten documents and subsequently add text layers to the document. Grouped model pools can also be shared with others within their organization.
- Algorithm utilizes CNNs with only 2 layers, sufficient enough to capture a single sub-region category, leading to minimal training duration. This algorithm achieved an accuracy of 94%.

VATC - Virtual Assistant to Type and Code Feb 2021 – June 2021

Python | Tkinter | NLP | [Code](#)

A Text Editor developed using Python and Tkinter, featuring an integrated and advanced approach tailored to aid programmers in their coding tasks via Speech Detection.

- This tool presents a hybrid model combining speech recognition and natural language processing, designed to take users' voice commands as input and convert them into Python code snippets.
- The code generation and documentation aspects of the tool utilize a BERT model trained on a dataset of Python programs.

KISAN SEVA July 2020 – Dec 2020

ReactJs | NodeJs | Material UI | Flutter | [Code](#) | [Web Link](#)

Developed a web and mobile app dedicated to serving the farming community by ensuring fair value for their crops while delivering comprehensive agricultural education and best farming practices.

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## SKILLS

LANGUAGES – Python, C++, C, C#, Java, HTML, CSS, JavaScript, TypeScript, and MIPS Assembly Language

FRAMEWORKS – ReactJS, Angular CLI, .NET Core, Unity 3D, PyTorch, Django, ML, DL and Docker.

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## POSITIONS OF RESPONSIBILITY

TIRUTSAVA FEST, Coordinator of Event Management and Marketing Committee. 2021 – 2022

NSS PROGRAM, Volunteer 2019 – 2020