

# V V S N DATTA SAI LINGAM

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## EDUCATION

### University of North Carolina

Master of Science in Computer Science; GPA: 3.77/4.0

Charlotte, USA

Aug 2023 - May 2025

**Coursework:** AI, ML, Visual Analytics, Big Data, Database System, Software Systems Design and Implementation, Cloud Computing

### Vellore Institute of Technology

Bachelors in Computer Science and Engineering; GPA: 7.95/10.0

Tamil Nadu, India

Jul 2019 - Aug 2023

**Coursework:** Database Management, Software Engineering, Object Oriented Programming, AI, ML, NLP, Big Data, Image processing

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, HTML5, CSS, JavaScript, PHP, SQL, MatLab, XML, R

**Frameworks:** Node.js, Angular, React, Junit, Swagger, TensorFlow, Keras, GCP, .NET, PyTorch, JSON, REST, Docker, Kubernetes

**Tools / Database:** AWS (S3, EC2, SQS, Lambda), PostgreSQL, Git, MongoDB, MySQL, Redis, Jenkins, Jira, Splunk, Azure, Kafka

## EXPERIENCE

### Bajaj Finserv

BYTE Intern

Pune, India

Jan 2023 - Jun 2023

- Spearheaded a POC by converting a monolithic application to Kubernetes based microservices thereby achieving a 40% scalability boost
- Collaborated across teams to enhance performance, security of the main website by using Redis, OAuth, Azure App Functions, AWS lambda, schedulers, DevOps tools resulting in 30% efficiency gain
- Incorporated ChatGPT for AI integration, React, Node.js during development which increased application reachability by 15%

### FarmOR Agri Solutions

Full Stack Development Intern

Hyderabad, India

Aug 2022 - Dec 2022

- Orchestrated MEAN stack development for FarmOR partner app, FarmOR Kisaan app and admin panels (seller central)
- Strengthened security by 30% through Angular authentication, GIT and NPM scripts by crafting custom directives and decorators
- Elevated user engagement by 15% with MongoDB, Passport and ensuring seamless cross-browser (Mozilla, Chrome) experience

### HypoSoft Global Solutions

Backend Development Intern

Hyderabad, India

May 2022 - Jul 2022

- Developed performant REST APIs utilizing Node.js boosting app speed by 25% which ensured smooth server-user data flow
- Collaborated on front-end integration and maintained proper documentation which accelerated business processes by 20%
- Slashed bugs by 15% through Bitbucket version control and rigorous Postman testing for strong backend services

## SELECTED ACADEMIC PROJECTS

### Food Recognition and Calorie Measurement ([Link](#)) | Python

Jan 2022 - Jun 2022

- Orchestrated development of an advanced food recognition system using Convolutional Neural Networks (CNN) achieving an accuracy enhancement by 25% over conventional models
- Demonstrated a substantial increase in image recognition performance by implementing data augmentation, image segmentation techniques

### Driver Drowsiness Detection ([Link](#)) | Python

Aug 2021 - Nov 2021

- Implemented a robust image processing pipeline with face and eye detection achieving 97.79% accuracy and a validation loss of 1.76% across different conditions by synergizing Haar Cascade classifiers and Convolutional Neural Networks
- This system alerts drivers based on eye state, reducing fatigue-related accidents

### Implementation of Basic Shell Interpreter ([Link](#)) | C

Feb 2021 - Jun 2021

- Developed a C-based shell interpreter and optimized process management with fork() achieving a 30% performance gain
- Enhanced functionality by adding command options (**ls -la**, **uname -r**) through advanced C programming, process optimization and comprehensive command-line tools

### Pacman Game ([Link](#)) | Java

Jan 2021 - Jun 2021

- Engineered a Pac-Man game in Java, leveraging inheritance and exception handling to ensure seamless code execution, resulting in a 40% reduction in runtime errors and a 25% faster game load time
- Collaborated with the team to optimize the user interface using Java Swing, enhancing the overall gaming experience

## RESEARCH WORK

### Detection of Cross Site Scripting (XSS) attacks, IJARES | Python, Pandas, NumPy, SciPy

Feb 2022 - May 2022

- Spearheaded a deep learning-based XSS detection system achieving 99.3% accuracy, enhancing web security against potential attacks
- Rigorously evaluated the solution using 10-fold cross-validation, yielding exceptional results including a 99.1% recall rate and 99.9% precision value