

Nadimpalli Ujwal Srimanth Varma

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EDUCATION

DAV PUBLIC SCHOOL

Central Board of Secondary Education

Sri Aakash Junior College

Telangana State Board

Amrita Vishwa Vidyapeetham

CGPA - 9.12

Hyderabad, Telangana, India

Completed schooling in 2019

Hyderabad, Telangana, India

Jun 2019 – Sep 2021

Coimbatore, Tamil Nadu, India

EXPERIENCE

Software Development Intern

Providence

Jun 2024 – Aug 2024

- Developed 3 new features across 6 sprints using a tech stack of **Node.js**, **Express**, **React.js**, and **PostgreSQL**.
- Applied **Agile** practices, including sprint planning and daily scrum meetings, to deliver incremental and high-quality solutions.
- Integrated large-scale APIs with efficient **pagination** logic to handle 1,000+ records per call, reducing query load and improving response time.
- Refactored backend services using modular patterns to reduce duplication by 20%, enhance maintainability, and promote testable code.

Software Development Intern

Providence

Jan 2025 – Jun 2025 (Ongoing)

- Developed modular backend components using **.NET** and **TypeScript**, applying clean, reusable logic to streamline dynamic data processing
- Wrote comprehensive unit tests using **Jest** to ensure functionality and prevent regressions across new and existing modules.
- Set up telemetry pipelines in **Azure Application Insights** to collect logs, custom events, and metrics, enabling proactive alerting and diagnostics.
- Designed KQL-powered dashboards to monitor real-time service performance and trigger rule-based anomaly alerts to notify developers of issues.

PROJECTS

Image and Scanned Document Forgery Localization

[GitHub](#)

[Demo](#)

Python

- Built a **CNN + ELA** model for image forgery localization, achieving an **F1-score of 0.57**, rivaling **MantraNet** while significantly reducing inference time.
- Achieved **80%+ F1-score** when tampering exceeded 10%, indicating strong **robustness to manipulation intensity**.
- Implemented **YOLOv8** for scanned document forgery detection, reaching **0.92 precision** and **0.48 recall**—effective on **structured formats** like bills and invoices.
- Used **Roboflow** with 8 augmentations for dataset prep; observed potential for improvement with **higher-quality inputs**.

Smart Internship Tracker – Spring Boot Web App

Java, Spring Boot, MongoDB, REST APIs

- **Objective:** Built a lightweight Spring Boot web app to help colleges manage internship applications and feedback records.
- Developed **RESTful APIs** to handle student registrations, internship listings, and feedback submission.
- Integrated **MongoDB** using Spring Data for storing user details and internship data in a flexible schema.
- Implemented basic **role-based login system** (student/mentor) using Spring Security with in-memory authentication.
- Followed MVC pattern to separate controller, service, and data access layers for cleaner code structure.

Full-Stack Social Media App

[GitHub](#)

React, Redux, Node.js, Express, MongoDB, MUI, Socket.io

- Built a complete social media platform with **login/signup**, **posts**, **likes**, **friend requests**, and **profile management**.
- Implemented **real-time chat** using **Socket.io's event-based system** with seen and delivered indicators.
- Used **Redux** for managing app state and JWT for secure user authentication.
- Designed a responsive interface with **dark/light mode** using MUI and added sponsored ad display.
- Followed modular MVC structure and tested APIs with Postman for smooth frontend-backend integration.

Indian School Dropout rates

[GitHub](#) [Demo](#)

HTML,CSS,JavaScript,PHP

- **Purpose:** Studied **school dropout patterns** across India by collecting data from **10+ sources** to identify major causes and propose potential solutions.
- Analyzed dropout data and found that **40-50%** of students left school due to **financial difficulties** and **lack of interest**.
- Designed **7-8 relational schemas** using **ER diagrams**, and **normalized** the data to maintain consistency and avoid redundancy.
- Developed a **web-based application** with **interactive visualizations** to present insights and encourage students to continue education up to **Class 10 or Class 12**.

CERTIFICATIONS

Certificate of Completion – Industrial Project Issued By SAP Labs

[GitHub](#) [Demo](#)

Issue Date: 26-07-2024

Project: Efficient Code Review Automation

Tech Stack: Node.js, React.js, AWS (S3, CodeGuru)

- Developed a web-based system to automate code reviews using AWS CodeGuru, removing the need for manual uploads and pull requests.
- Built back-end middleware to:
 - * Accept and upload Java/Python code files to S3 within 5 seconds supporting an automated code review pipeline.
 - * Automatically raise pull requests from the uploaded S3 files to CodeGuru for review.
 - * Return actionable insights to the frontend, reducing review time by 50%.
- Replaced a 10-minute manual process with a 4-5 minute automated pipeline, enhancing efficiency and consistency for developers.

SKILLS

Languages: Python, C++ , Java, JavaScript, TypeScript, HTML, CSS

Web Frameworks: Node.js, Express.js, React.js, .NET , Redux

Databases: MySQL, PostgreSQL, MongoDB

APIs and Integration: RESTful APIs, OAuth2, JSON, Postman, Python Requests, API Gateways

Machine Learning and Data Science: Scikit-learn, Pandas, NumPy, TensorFlow, Keras, OpenCV, Matplotlib, Seaborn

Development Tools: Git, GitHub, VS Code, Jupyter Notebook

Testing and Monitoring: Jest, Azure Application Insights

Soft Skills: Collaboration, Teamwork, Leadership

PUBLICATIONS

- *REGION Wise iMAGE Forgery Localisation: A CNN Framework with Error Level Analysis*, presented at the 3rd International Conference in Power Engineering and Intelligent Systems (PEIS 2025), National Institute of Technology Uttarakhand, India (March 08-09, 2025).