

# VIJAYA SUHAAS NADUKOORU

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## PROFESSIONAL SUMMARY

Software Engineering graduate student at the National University of Singapore with experience building full-stack applications and workflow-driven systems using React, Next.js, Node.js, and PostgreSQL. Skilled in designing data-driven applications, integrating APIs, and developing dashboards to monitor system performance. Interested in workflow automation, process optimization, and building scalable engineering systems.

## TECHNICAL SKILLS

**Programming:** JavaScript (ES6+), TypeScript, Python, SQL  
**Frontend:** React.js, Next.js, HTML5, CSS3, Responsive Design, UI Component Development  
**Backend & Systems:** Node.js, Express.js, NestJS, REST APIs, JWT Authentication, Workflow Logic Design  
**Databases:** PostgreSQL, Supabase, Redis, Vector Databases (pgvector)  
**Tools & Platforms:** Git, GitHub, Docker, Vercel, API Integration, Debugging, Chrome DevTools  
**Cloud:** AWS (Cloud Practitioner), Microsoft Azure

## EDUCATION

**National University of Singapore** Aug 2025 – Aug 2026  
*Master of Technology (Software Engineering)* Singapore  
**Vellore Institute of Technology** Aug 2021 – Aug 2025  
*Bachelor of Technology, Information Technology* India

## SELECTED PROJECTS

**DocuMind — AI Document Knowledge Platform** *React, NestJS, PostgreSQL*

- Designed end-to-end workflow for document ingestion, processing, and query-based retrieval using structured pipelines.
- Developed frontend interfaces and backend APIs to support document upload, processing, and status-based interactions.
- Implemented efficient data flow and retrieval mechanisms for querying embedded document content.
- Deployed scalable application with optimized API communication and system performance.

**Signal — Competitive Intelligence Dashboard** *React, TypeScript, Node.js*

- Built interactive dashboard to monitor competitor pricing trends and system-generated insights.
- Designed data pipelines and backend APIs for automated data collection, validation, and processing.
- Developed visualization components to track changes, identify bottlenecks, and analyze trends.
- Implemented secure data access, rate limiting, and structured storage using Supabase.

**VoyageAI — AI Travel Planning Application** *Next.js, PostgreSQL, Redis*

- Built full-stack application with structured workflows for generating and managing travel itineraries.
- Designed backend services for request handling, authentication, and data storage.
- Implemented caching and optimized database queries to improve system efficiency and response time.
- Developed user-facing interfaces to manage and visualize trip planning workflows.

**Plant Disease Detection Web System** *Python, TensorFlow*

- Developed machine learning pipeline for image classification and prediction workflows.
- Built web interface to support user input, processing, and result generation.
- Evaluated model performance using standard metrics ensuring data reliability.

## CERTIFICATIONS

Microsoft Azure Administrator (AZ-104) | AWS Certified Cloud Practitioner | Generative AI (IBM)