

Nithin Ram Kalava

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EDUCATION

Vasireddy Venkatadri Institute of Technology (VVIT)

Guntur, India

Bachelor of Technology in Computer Science & Engineering; CGPA: 8.28/10.0

Dec. 2021 – June 2025

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Artificial Intelligence, Machine Learning, Cloud Computing.

FULL-STACK ENGINEERING PROJECTS

AI-Powered PC Building Assistant Platform | Python, Flask, PostgreSQL, React, TypeScript, Next.js, ETL

- Engineered a production-quality, scalable full-stack AI system with a Python backend for ML recommendations and a PostgreSQL knowledge base with PL/pgSQL for complex business logic.
- Developed a comprehensive ETL data pipeline to ingest and process massive datasets (5000+ components), demonstrating skills in analyzing and delivering real-time insights.
- Built a responsive, dual-interface React/TypeScript frontend (using Next.js) that consumes backend REST APIs. ([Live Demo](#))

CareerPath Navigator | TypeScript, Next.js, React, CI/CD

- Architected and built a scalable web application from scratch using a modern TypeScript/React stack (Next.js), focusing on performance and user experience for a large user base.
- Owned development across the full stack, including frontend UI/UX, backend API logic (Node.js), and CI/CD infrastructure on Vercel. ([Live Demo](#))

Post-Quantum Cryptography Library ('pqc') | JavaScript, NPM, Algorithms

- Demonstrated ability to tackle complex, deep-tech challenges by developing a high-performance JavaScript library for advanced cryptography, achieving 1900+ NPM downloads.
- Built an interactive React/Next.js visualization tool to make complex data understandable. ([Live Demo](#))

TECHNICAL SKILLS

Frontend: TypeScript, React, Next.js, JavaScript, HTML/CSS, Tailwind

Backend: Python, Node.js, REST APIs

Databases: PostgreSQL (PL/pgSQL), MySQL, Oracle, SQL, MongoDB

Cloud & DevOps: Google Cloud Platform (GCP), AWS, Oracle Cloud, Docker, Git, CI/CD, Linux

AI/ML: Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, LLM Integration, Data Pipelines (ETL)

KEY CERTIFICATIONS

Google Cloud Certified - Foundations & 30+ Skill Badges (Vertex AI, GenAI) Link	2023-2024
Meta - Front-End Developer Professional Certificate (React.js) Link	Jul 2023
freeCodeCamp - Scientific Computing with Python Link	Mar 2023
AWS Academy Graduate - Data Engineering Link	Aug 2024
IBM AI Engineering Professional Certificate Link	May 2025
IBM AI Developer Professional Certificate Link	May 2025

LEADERSHIP & ACTIVITIES

Leadership: Lead Member of college Coding Club; organized technical workshops and mentored 100+ peers.

Cloud Infrastructure: Manage a home lab (NAS, server) and a public-facing AdGuard Home DNS server on Oracle Cloud.