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,
Operating Systems, Artificial Intelligence, Machine Learning, Cloud Computing.

PERSONAL PROJECT EXPERIENCE

AI-Powered PC Recommender System - Creator & Full-Stack Engineer

Guntur, India

Personal Project

Sep. 2024 - Dec. 2024

- Engineered an end-to-end AI system with a Python/ML backend for component ranking and a PostgreSQL knowledge base using PL/pgSQL, ensuring 100% configuration compatibility.
- Implemented a comprehensive **ETL data pipeline** involving web scraping, cleaning with Pandas, and transformation for a dataset of over 5000 hardware components.
- Designed a dual-interface frontend (conversational LLM & expert builder) using Next.js/React. (Live Demo)

Post-Quantum Cryptography Library ('pqc') – Open Source Developer

Guntur, India

Personal Project

Jan. 2025 – April. 2025

- Developed and published a high-performance, pure JavaScript library implementing complex NIST PQC standards.
- Achieved real-world adoption with 1900+ NPM downloads and performance of >2300 keygen ops/sec.
- Built an interactive visualization tool ('PQC-Vizz') with **React/Next.js**. (Live Demo)

ADDITIONAL PROJECTS

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

 Architected and deployed a user-centric, full-stack educational platform with recommendation algorithms, focusing on performance, accessibility, and automated CI/CD deployment via Vercel. (<u>Live Demo</u>)

Math Minute | Java, Android SDK, SQLite

 Developed a native Android application using Java and strong OOP principles, featuring adaptive algorithms and local data persistence with an SQLite database.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL (PostgreSQL/PLpgSQL), C/C++

Frameworks & Libraries: React, Next.js, Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, Node.js

AI/ML: Generative AI, LLM Development, Deep Learning, NLP, Data Pipelines (ETL), Vector Search

Databases & Cloud: PostgreSQL, MySQL, Oracle Cloud, AWS, Google Cloud Platform (GCP), Docker, Vercel (CI/CD)

KEY CERTIFICATIONS

IBM AI Engineering Professional Certificate \underline{Link}	May 2025
IBM AI Developer Professional Certificate \underline{Link}	May 2025
Natural Language Processing Specialization (DeepLearning.AI) <u>Link</u>	Dec 2024
Deep Learning Specialization (DeepLearning.AI) <u>Link</u>	Feb 2024
TensorFlow: Advanced Techniques Specialization (DeepLearning.AI) <u>Link</u>	Apr 2024
AWS Academy Graduate - Data Engineering <i>Link</i>	Aug 2024

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.