VISHNU VIVEK VALETI

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EDUCATION

University of Florida   **August 2024 - May 2026**
Master's, Computer Science   *GPA: 3.86*
  - Course Work: Advanced Data Structures, Distributed Operating System, Software Engineering, Natural Language Processing, Analysis of Algorithms, Internet Storage Systems, Bioinformatics

Vignan University   **October 2020 - May 2024**
Bachelor's, Information Technology   *GPA: 3.43*
  - Course Work: Data Structures, Java, Python, Web Applications, Data Base Management System, Computer Organization and Architecture, Internet of Things, Computer and Network Security, Operating Systems.

SKILLS

Languages: C/C++, Python, Go, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks/Systems: React.js, Node.js, Express.js, Docker, Linux/Unix, Git
Backend & Cloud: MySQL, PostgreSQL, MongoDB, Redis, Supabase, CI/CD
Testing & Tools: Cypress, Jest, Pytorch, Tensorflow, Agile, Streamlit, Github Actions

PROFESSIONAL EXPERIENCE

University of Florida   **Gainesville, FL**
Graduate Student Assistant   *August 2025 - Present*
  - Built a Streamlit dashboard for AI accreditation in gambling, improving transparency for 10+ operator evaluations.
  - Implemented ARAS scoring with gatekeeper criteria, standardizing assessments across 10+ cases and enabling tiered accreditation.
  - Automated Delphi-based weighting and validation, reducing manual review by 50% and generating reproducible, exportable accreditation reports.

Vignan University   **Guntur, India**
Software Development Program Apprentice   *January 2024 - May 2024*
  - Built a React-based academic portal that streamlined course and record workflows, cutting manual processes by 40%.
  - Automated record management using a PHP/MySQL backend, reducing data entry effort by 60% and improving data consistency across academic systems.
  - Designed and deployed role-based dashboards with secure access controls, serving 150+ active users.

Vignan University   **Guntur, India**
Teaching Assistant   *August 2023 - May 2024*
  - Mentored 100+ students in DBMS and Web Applications through labs, projects, and coding sessions, boosting project completion rates.
  - Introduced standardized rubrics for 6 sections, for consistent grading and structured feedback across faculty teams.
  - Guided 20+ student teams through the Agile-based development cycle, strengthening collaboration and problem solving skills.

PROJECTS & OUTSIDE EXPERIENCE

JobScoop
Stack: Go, PostgreSQL, React.js, Redis, Docker, Cypress, Jest, CI/CD
  - Delivered a job search platform enabling secure login, subscriptions, and tailored job-board filters, job updates.
  - Built a Go backend with PostgreSQL, REST APIs, and web scraping, integrated with a React front-end featuring dashboards and responsive design.
  - Ensured reliability with Cypress E2E tests and unit tests in Go/React, achieving seamless frontend-backend interaction.

Reddit-Style Discussion Platform
Stack: Go, PostgreSQL, REST APIs, Go test
  - Designed and implemented a scalable discussion platform with user registration, posts, comments, and voting.
  - Improved concurrency safety and scalability by leveraging goroutines and synchronization primitives in Go.
  - Built a command-line client interacting with the Go backend via HTTP, simulating a distributed forum with 50+ concurrent users.

Rule-Based Chatbot
Stack:React, Vite, TypeScript, Node.js, Express, WebSockets, Docker
  - Built a rule-based chatbot engine with JSON/YAML rules, hot reload, and validation APIs for dynamic updates.
  - Developed a React + Vite UI with WebSocket chat and debug tracing, reducing debugging effort by 40%.
  - Containerized with Docker Compose and added automated tests, ensuring consistent deployments and rule accuracy.