

Vishnu Vivek Valeti

+1 3522267455 | valeti.v@ufl.edu | linkedin.com/in/valetivishnuvivek | github.com/valetivivek

EDUCATION

M.S., Computer Science

Aug 2024 – May 2026

University of Florida, Gainesville, FL

3.86 GPA

Relevant coursework: Advanced Data Structures, Distributed Operating System, Software Engineering, Natural Language Processing, Analysis of Algorithms, Internet Storage Systems, Bioinformatics

B.Tech., Information technology

Oct 2020 – May 2024

Vignan University, Guntur, India

3.43 GPA

Relevant coursework: Data Structures, Java, Python, Web Applications, Data Base Management System, Computer Organization and Architecture, Internet of Things, Computer and Network Security, Operating Systems.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, Go, SQL, JavaScript, TypeScript

Systems & Frameworks: Linux, Git, CMake, Docker, Shell Scripting, Node.js, Express.js, ReactJS, MongoDB

Backend & Cloud: AWS, SQL(PostgreSQL, MySQL), NoSQL(MangoDB)

Other Tools: Postman, Figma, PyTorch, Snowflake, TensorFlow

Soft Skills: Problem Solving, Technical Documentation, Communication, Time Management, Leadership, Adaptability

PROFESSIONAL EXPERIENCE

University of Florida, Gainesville, FL: Graduate Research Assistant

Aug 2025 – Present

Stack: React, Plotly, TensorFlow, PyTorch, Pandas, NumPy, PostgreSQL

- Developed backend schemas and interactive dashboards to evaluate fairness in gambling-related AI models.
- Generated 5,000+ synthetic records with Pandas/NumPy, reducing validation runtime by 30%.
- Built ML pipelines in TensorFlow/PyTorch to benchmark fairness, transparency, and robustness across vendors.
- Collaborated with faculty and graduate peers to prepare findings for scalable AI fairness evaluation.

Vignan University, Guntur, India: Software Development Program Apprentice

Jan 2024 – May 2024

Stack: React, JavaScript, PHP, MySQL

- Built an academic portal that reduced manual workflows by ~40% for 200+ students and faculty.
- Automated record management with a PHP/MySQL backend, cutting data entry time by ~60%.
- Designed and deployed role-based dashboards serving 150+ active users.
- Partnered with 5+ coordinators to gather requirements and deliver tailored features.

Vignan University, Guntur, India: Teaching Assistant

Aug 2023 – May 2024

Stack: DBMS, Web Applications, MySQL, PHP

- Led teaching support for DBMS and web development courses, mentoring 100+ students through project-based learning.
- Streamlined academic evaluations by introducing rubrics and structured feedback systems adopted across 6 sections.
- Guided 20+ student teams on end-to-end development projects, from requirements gathering to final deployment.

ACADEMIC PROJECTS

JobScoop

Stack: Go, PostgreSQL, React.js, Redis, Docker, Context API, Chart.js, Cypress, Jest

- Built a job search platform with secure signup/login, subscription management, and job-board filters (role, company, graduation year) for tailored recommendations.
- Developed a Go backend with PostgreSQL, REST APIs, and web scraping integration, and a React frontend featuring dashboards, charts, and responsive design.
- Implemented end-to-end testing with Cypress and unit testing in Go/React, ensuring reliability and seamless interaction between frontend and backend.

Reddit-Style Discussion Platform

Stack: Go, PostgreSQL, REST APIs, Go test

- Developed a client-server discussion platform in Go with user registration, subreddit creation, posts, comments, and voting.
- Implemented parallel computing with goroutines and synchronization to ensure concurrency safety and scalability.
- Built a command-line client interacting with the Go backend via HTTP, simulating a distributed forum environment with concurrent users.

Rule-Based Chatbot

Stack: React, REST APIs, WebSockets, Docker, HTML/CSS/JS

- Developed a rule-based chatbot with scripted Q&A flows, fallback handling, and session management for user interactions.
- Built a React frontend with WebSocket communication for real-time, interactive responses.
- Implemented and deployed a Flask backend with REST APIs, containerized via Docker for lightweight deployment supporting multiple users.