VISHNU VIVEK VALETI

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EDUCATION

M.S. in Computer Science — **Aug 2024 – May 2026**
University of Florida — GPA: 3.83
Coursework: Advanced Data Structures, Distributed Operating Systems, Software Engineering, Internet Storage Systems, Bioinformatics, Natural Language Processing.

B.Tech in Information Technology — **Aug 2020 – May 2024**
Vignan University — GPA: 3.43
Coursework: Data Structures and Algorithms, Java, Python, Web Applications, DBMS, Computer Organization and Architecture, IoT, Network and Cyber Security, Operating Systems.

TECHNICAL SKILLS

Programming Languages: Python, Go, C/C++, JavaScript, TypeScript, SQL, HTML, CSS.
Frameworks & Libraries: React.js, Node.js, Express.js, PyTorch, TensorFlow, Streamlit.
Databases: PostgreSQL, MySQL, MongoDB, Redis, Supabase.
Cloud & DevOps: AWS, Docker, CI/CD, GitHub Actions, Linux/Unix.
Testing & Tools: Unit Testing, Cypress, Jest, Git, REST APIs, Agile/Scrum, Go test.

EXPERIENCE

Machine Learning Engineer Intern – ReplyQuick LLC — **Dec 2025 – Present**
- Trained and fine-tuned machine learning models in Python, aligning supervised learning workflows with production-oriented software requirements.
- Built and executed cloud-based model training pipelines using AWS, ensuring reproducible experimentation and controlled iteration.
- Collaborated with engineering teams to align model outputs with downstream software system integration needs.

Graduate Student Assistant – University of Florida — **Aug 2025 – Dec 2025**
- Developed and deployed a React-based accreditation platform on Vercel, automating evaluation workflows for 10+ operators and improving system transparency.
- Implemented decision-analysis logic including ARAS with gatekeeper criteria, standardizing tiered accreditation outcomes across evaluation scenarios.
- Built dynamic, data-driven UI components and integrated reporting workflows, reducing manual review effort by 50% and generating reproducible results.

Software Development Program Apprentice – Vignan University — **Jan 2024 – May 2024**
- Built and maintained a full-stack academic portal using React, PHP, and MySQL, reducing manual workflows and improving data accuracy.
- Automated core record management and validation logic, eliminating redundant processes across academic systems.
- Designed secure, role-based dashboards supporting controlled access for academic and administrative users.

ACADEMIC PROJECTS

JobScoop
Stack: Go, PostgreSQL, React, Redis, Docker, Cypress, Jest
- Architected and developed a full-stack job search platform with secure authentication, subscription workflows, and job discovery.
- Implemented a scalable backend using RESTful APIs with PostgreSQL and Redis for efficient access and management.
- Ensured system reliability by building Go unit tests and Cypress end-to-end tests validating frontend integration.

Reddit-Style Discussion Platform
Stack: Go, PostgreSQL, REST APIs
- Developed a Reddit clone with RESTful APIs supporting users, subreddits, posts, nested comments, voting, and direct messaging.
- Implemented concurrency-safe backend using sync.Map, mutexes, and atomic counters to manage posts, comments, Karma.
- Added rate limiting, logging, metrics collection, and graceful shutdown, plus a CLI client to test workflows.

Rule-Based Chatbot
Stack: React, TypeScript, Node.js, Express, WebSockets, Redis, Docker
- Engineered a real-time, rule-based chatbot enabling bidirectional communication via WebSockets with dynamically reloadable rule definitions.
- Implemented Redis-backed pub/sub messaging to support state synchronization and horizontal scalability across services.
- Strengthened reliability and security through schema validation, rate limiting, CORS enforcement, and Dockerized deployments.