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 supervised machine learning models in Python for scalable production-oriented software systems.
  - Built reproducible cloud-based model training pipelines on AWS to support controlled experimentation cycles.
  - Collaborated with engineering teams to integrate ML model outputs into downstream application workflows seamlessly.
  - Supported dataset preparation, model evaluation, and performance optimization for ML systems across ReplyQuick platforms.

Graduate Student Assistant – University of Florida   **Aug 2025 – Dec 2025**
  - Developed and deployed a React-based accreditation platform on Vercel to automate evaluation workflows for 10+ operators.
  - Implemented decision-analysis logic using ARAS with gatekeeper criteria to standardize tiered accreditation outcomes.
  - Built dynamic, data-driven UI components and reporting workflows to reduce manual review effort by 50 percent significantly.
  - Collaborated with stakeholders to translate accreditation requirements into maintainable frontend application logic effectively.

Software Development Program Apprentice – Vignan University   **Jan 2024 – May 2024**
  - Built and maintained a full-stack academic portal using React, PHP, and MySQL to streamline academic workflows end-to-end.
  - Automated core record management and validation logic to eliminate redundant manual processes across systems.
  - Designed secure, role-based dashboards to support controlled access for academic and administrative users authorization.
  - Implemented backend integrations and database queries to ensure data consistency and reliable system behavior transactional.

ACADEMIC PROJECTS

JobScoop
Stack: Go, PostgreSQL, React, Redis, Docker, Cypress, Jest
  - Built a responsive React frontend with protected routes, authentication flows, and subscription management dashboards.
  - Implemented job filtering, date-based search, and company-role trend visualizations using Chart.js components.
  - Integrated REST APIs and handled loading, error, and retry states to improve user experience reliability consistently.
  - Developed reusable UI components and Context-based state management to support scalable frontend architecture.

Reddit-Style Discussion Platform
Stack: Go, PostgreSQL, REST APIs
  - Built a concurrency-safe backend supporting users, subreddits, posts, nested comments, voting, and direct messaging.
  - Implemented synchronization using mutexes, atomic counters, and sync.Map for thread-safe state management reliably.
  - Designed RESTful APIs for core workflows including feeds, voting, messaging, and karma computation at scale efficiently.
  - Developed a Go-based CLI client to simulate users, test workflows, and validate system behavior under load concurrently.

Rule-Based Chatbot
Stack: React, TypeScript, Node.js, Express, WebSockets, Redis, Docker
  - Built a full-stack rule-driven chatbot using React and Node.js with native WebSocket-based messaging protocols.
  - Implemented hot-reloadable rule evaluation using JSON schemas, checksums, and in-memory context storage adapters.
  - Designed REST APIs and WebSocket protocols to support rule validation, simulation, and real-time chat workflows.
  - Containerized frontend and backend services using Docker and Docker Compose for local multi-service deployment.