

MAHENDRA VARMA VADDI

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EDUCATION

University of Colorado Boulder, College of Engineering and Applied Sciences

Aug 2024 – May 2026

Master of Science, Data Science; GPA: 3.8/4.0

Boulder, USA

- Coursework: Natural Language Processing, Datacenter Scale Computing, Information Visualization, Machine Learning, Data Mining

PES University, College of Engineering

Aug 2018 – Aug 2022

Bachelor of Technology, Computer Science; CGPA: 7.91/10

Bangalore, India

- GATE 2022: All India Rank 1048 (Top 0.7% among 155,000+ candidates in Computer Science)
- Coursework: DBMS, Design and Analysis of Algorithms, Computer Networks, Operating Systems, Machine Intelligence

WORK EXPERIENCE

Kobeyo

Jun 2025 – Aug 2025

Software Engineering Intern, Backend and Data Systems

Boulder, USA

- Built a hiring intelligence platform by scraping 1,000+ Los Angeles businesses with Google Maps API, generating large-scale job leads
- Automated job-skill mapping using web scraping + LLMs (Ollama), eliminating manual tagging and improving classification accuracy
- Engineered multithreaded data pipelines, reducing processing time 90% and increasing scalability
- Integrated NER + retrieval pipelines enabling contextual data storage and structured query capabilities

Kyndryl Technologies

Jun 2022 – Aug 2024

Senior Associate Software Developer, Application Modernization Team

Bangalore, India

- Built REST APIs with Node.js (Loopback) powering Kyndryl Bridge's modernization platform, used by 1,200+ enterprise clients
- Automated workflows with Go and Python on AWS EMR, reducing manual intervention 40%
- Configured CI/CD pipelines (GitHub Actions) ensuring 85% code coverage, improving build reliability by 20%
- Optimized MongoDB queries (+35%) and resolved Docker memory bottlenecks to improve scalability and reliability

Microchip Technologies

Jan 2022 – May 2022

Software Developer Intern, Salesforce Team

Bangalore, India

- Collaborated with senior engineers to build Lightning Components for a portfolio management application, contributing to a 40% reduction in post-launch bugs.
- Built and deployed 4 database solutions that improved portfolio data management and retrieval efficiency
- Collaborated with stakeholders to gather requirements, design database schema, and deploy solutions to production

PROJECTS

Distributed Rule-Based File Orchestrator (DRBFO) | Python, FastAPI, GCP, Docker

2025

- Engineered cloud-native distributed backend system processing file operations across multi-stage event-driven pipeline (ingest → inspect → classify → execute) using Google Cloud Pub/Sub for async message routing
- Implemented priority-based classification engine with dead-letter queues, exponential backoff retries, and idempotent handlers to guarantee exactly-once processing semantics across 4 autoscaling microservices
- Built real-time job tracking with Firestore for state management and Cloud Storage for artifact persistence; configured IAM policies and container orchestration for production-grade deployment

Ruby Language Compiler | Ruby, LLVM, C++

2024

- Developed compiler pipeline implementing lexical analysis, recursive descent parsing, semantic analysis, and intermediate representation (IR) generation for Ruby language subset supporting classes, methods, control flow, and expressions
- Designed and optimized abstract syntax tree (AST) transformations and symbol table management for scope resolution and type checking; generated LLVM IR for control flow, functions, and expressions
- Integrated with LLVM toolchain for native code generation and optimization passes; validated correctness across 500+ test cases covering edge cases and language features

TECHNICAL SKILLS

Languages: Python, Go, TypeScript, JavaScript, C++, Ruby

Databases: MongoDB, NoSQL, MySQL, PostgreSQL, Firestore

Core Competencies: Data Structures & Algorithms, System Design, Microservices, Distributed Systems

Cloud & DevOps: AWS (EMR, Lambda, S3, EC2), GCP (Cloud Run, Pub/Sub, Firestore, Cloud Storage), Docker, Kubernetes

Frameworks & Tools: Node.js (Loopback), FastAPI, Apache Spark, Hadoop, GitHub Actions (CI/CD)

ADDITIONAL

Achievements: 3rd Place, Colorado Impact Hackathon (Google & Colorado Energy Office, Nov 2025)

Languages: Fluent in English, Hindi, Telugu, Kannada and Tamil