

Shivadhar Reddy Maddi

Ames, IA | +1 (321) 467-3067 | shivadhar.maddi@gmail.com | [Linkedin](#) | [Github](#) | [Portfolio](#)

EDUCATION

Iowa State University

Ames, IA

Bachelor of Science in Computer Science | Minors: Entrepreneurship, Applied Artificial Intelligence

Expected Dec 2026

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Software Engineering, Machine Learning, Computer Networks, Object-Oriented Design

EXPERIENCE

Vensol Global Pvt Ltd

Hyderabad, India

Full-Stack Software Intern

May 2026 – Aug 2026

- Built payroll features for FinTrack OS using React, TypeScript, Tailwind CSS, Node.js, and PostgreSQL for a multi-branch platform serving 300+ users.
- Engineered REST APIs, validation, PostgreSQL transaction logic, and RBAC, automating payroll workflows and reducing processing time by ~60%.
- Deployed backend services and PostgreSQL on AWS with the frontend on Vercel, using Git-based releases to debug production issues and validate payroll accuracy.

Iowa State University — Digital Ag Innovation Lab

Ames, IA

Web Systems Lead

Jan 2026 – May 2026

- Built and standardized 14+ Drupal and SharePoint pages across research websites, collaborating with lab teams and ISU IT to improve layout consistency and align accessibility with WCAG guidelines.

Swas Industries

Chennai, India

Software Engineering Intern

May 2025 – Aug 2025

- Built a quality and logistics tracking platform with React, TypeScript, Node.js, and REST APIs, replacing manual workflows.
- Developed tracking workflows with validation, API integration, database operations, and automated testing.
- Containerized services with Docker and automated build and test workflows using GitHub Actions.

PROJECTS

Insurance Policy Administration System — Bonzah (Client Capstone)

Aug 2026 – Present

- Building CI/CD and deployment infrastructure across staging and production for an insurance policy-administration platform.
- Configured secrets management, monitoring, and deployment controls across Vercel, Supabase, and Sentry for staging and production environments.

TaskForge

Dec 2025

- Built a distributed job-processing platform with asynchronous workers, priority queues, scheduled execution, and real-time task tracking using Python, FastAPI, PostgreSQL, and Redis.
- Engineered fault tolerance with idempotent submissions, worker heartbeats, retry/backoff, and dead-letter queues; containerized services with Docker and automated validation using pytest and GitHub Actions.

Polly Press

May 2025

- Built a full-stack Android news application in Java with role-based workflows for readers, reporters, and administrators, including authentication, news publishing, polls, moderation, and ticketing.
- Engineered Java backend services using REST APIs, WebSockets, and MySQL for real-time updates, user management, and content delivery.

LEADERSHIP

CS Help Room Tutor — Iowa State University Dept. of Computer Science

Aug 2026 – Present

- Tutor 50+ students weekly across core CS courses, debugging code and explaining data structures, algorithms, programming, and problem-solving.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, TypeScript, JavaScript, SQL

Frontend: React, Tailwind CSS, HTML, CSS

Backend & Data: Node.js, FastAPI, REST APIs, WebSockets, PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS, Docker, Linux, Git, GitHub Actions, CI/CD

Testing: pytest, Unit & Integration Testing