

Harshitha Vaddi

551-301-4313 | harshvaddi@gmail.com

EXPERIENCE

Senior Software Engineer (Backend)

Oct 2025 – Present

EmitCS

- Led development of an order management platform, automating record lifecycle workflows and reducing manual operational updates by 45%.
- Built an end-to-end transaction processing & tracking system with custom data models, improving processing efficiency by 35%.
- Developed a real-time deposit and withdrawal tracking system with live balance updates, reducing transaction handling time by 40% and improving user accuracy.
- Implemented reusable lookup components, validation logic, and aggregate calculations, reducing data entry errors by 30% and improving system-wide data integrity.

Software Engineer (Backend)

Aug 2019 – Aug 2023

EmitCS

- Designed scalable data models with custom entities, relationships, validation rules, and computed fields, supporting 100+ users and improving operational visibility across teams.
- Implemented event-driven workflow automation for approvals, notifications, and follow-up processes, reducing manual operations by 50% and improving response times by 60%.
- Built and maintained bulk data processing pipelines for millions of records, adding validation, error handling, and reconciliation checks that improved data accuracy by 35%.
- Created analytics dashboards and role-based access controls for leadership and internal users, improving reporting efficiency by 40% while enforcing secure data visibility.

Stack: *Python, Celery, asyncio, FastAPI, PostgreSQL, SQLAlchemy, Pydantic, Jinja2*

EDUCATION

Montclair State University

MS, Computer Science

Montclair, NJ

2025

PROJECTS

Daily Mood Tracking App

- Designed and prototyped a user-friendly mood tracking application, focusing on intuitive daily check-ins, note capture, and mood history review.
- Built an interactive front-end using React, React Router, and Material UI, creating a responsive experience for logging moods, writing journal entries, and navigating historical records.
- Implemented mood trend visualization with Chart.js, enabling users to identify emotional patterns over time through clean, easy-to-read charts.

TECHNICAL SKILLS

Programming & Scripting: HTML, CSS, JavaScript, Python, SQL

Database Management: PostgreSQL

Data Analysis & Visualization: Power BI, Tableau, Advanced Excel

Statistical Analysis: Regression, Clustering, Hypothesis Testing