

# MANIT DANKHARA

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## Profile

Computer Science student at the University of Texas at Arlington (UTA) who builds end-to-end software—APIs, data pipelines, and mobile apps. Comfortable with Python/Java/C++, SQL, and modern frameworks. Known for clean code, reproducible workflows, and translating user needs into shipped features. Seeking a Software Engineering or Data internship to deliver measurable impact.

## Education

University of Texas at Arlington — B.S. in Computer Science

Expected Dec 2027

## Technical Skills

**Languages:** Python, C, C++, Java, Dart, JavaScript, SQL, Swift

**Frameworks/Libraries:** Flask, FastAPI, React, Flutter, Pandas, NumPy, scikit-learn, OpenCV

**Databases/Cloud:** MySQL, SQL Server, SQLite, REST APIs, Git/GitHub

**Tools:** VS Code, Jupyter, Postman, Unix/Linux

## Projects

### AI Stock Analysis & Portfolio Builder — Jul 2025

*Python, Pandas, NumPy, Matplotlib*

- Built a research tool that ingests real-time and historical market data via a market data API, cleans it, and computes features (returns, rolling stats, momentum signals).
- Implemented a config-driven backtesting engine to compare multiple strategies on multi-year OHLCV data with risk metrics (Sharpe, max drawdown, volatility).
- Automated the pipeline (ingest → feature gen → backtest → report) and produced PDF summaries/plots for faster decision-making.
- Structured the codebase with modular components (data, indicators, strategies, reporting) and robust error handling/logging.

### Image-to-Text Converter (OCR Mobile App) — Mar 2025

*Flutter/Dart, OpenCV, Tesseract*

- Built an offline mobile app that converts photos of receipts/notes into selectable, shareable text—no network required.
- Improved recognition by adding preprocessing (grayscale, denoising, thresholding) and perspective correction for skewed images.
- Designed a two-tap export flow (TXT/PDF/share sheet) and packaged the OCR pipeline as a reusable Flutter widget with unit tests for preprocessing steps.

### School Management System — Aug 2022

*Flask/FastAPI, MySQL, HTML/CSS/JS*

- Developed a web app for students/admins covering attendance, grades, records, and role-based access (RBAC) with input validation and server-side checks.
- Modeled a normalized (3NF) schema, added indexes, and implemented pagination to keep pages responsive with growing records.
- Built admin dashboards, CSV import/export, and transactional writes to maintain data integrity and reduce bad submissions.

## Experience

### Resident Assistant — University of Texas at Arlington

Aug 2024 – Present

- Mentor and support a community of 30+ residents; plan programs, mediate conflicts, and ensure policy compliance and safety.
- Coordinate with housing staff and campus resources; maintain accurate, on-time documentation and **incident** reports.

## Activities & Leadership

- Member, UT Arlington Computer Science Club
- Volunteer Tutor: Python & C++
- Sports: Basketball & Swimming