

# UC 2025 CS Capstone Team Contract

## Team members:

- **Chau Nguyen** - Computer Science Senior // [nguye2cu@mail.uc.edu](mailto:nguye2cu@mail.uc.edu)
- **Tiep Tran** - Computer Science Senior // [tran2tp@mail.uc.edu](mailto:tran2tp@mail.uc.edu)
- **Jack Nguyen** - Computer Science Senior // [nguye2lo@mail.uc.edu](mailto:nguye2lo@mail.uc.edu)

## Expected timing and frequency of team meetings:

- **Twice** a week, **1-2 hours** for each meeting.

## Project focus - Midea Sponsored Project:

- *Problem*
  - Cross-check receipts with bank statements.
  - Ensure the receipt amount matches the bank statement amount.
  - If a receipt is missing or mismatched, a warning system should alert the owner.
  - When amounts match, purchases must be classified into specific categories.
  - Purchases then need to be added into a Vendor Expense Claim Excel sheet with detailed purchase information..
- *Proposed Solution* - A system that:
  - Match receipts to corresponding bank statement entries.
  - Detects and flag missing or mismatched receipts.
  - Predict categories for valid purchases using NLP/ML methods.
  - Populate a structured Vendor Expense Claim Excel sheet with validated and classified data.
- *Proposed Stack*
  - Python NLP libraries (e.g., spaCy, NLTK, or Hugging Face Transformers)
  - Internal AI tool provided by Midea
  - AWS services (e.g., AWS Bedrock for LLMs, AWS S3 for file storage, AWS Lambda for automation, etc.)

## Roles:

- Jack Nguyen: Developer
- Tiep Tran: Developer
- Chau Nguyen: Developer

## Contract signatures:

**Jack Nguyen's  
Signature**

Jack Nguyen

**Tiep Trans Signature**

Tiep Tran

**Chau Nguyen's  
Signature**

Chau Nguyen

**Advisor's Signature**