

# Cassidy Hassell

(979)-676-5050 | [cassidy.hassell@tamu.edu](mailto:cassidy.hassell@tamu.edu) | [linkedin.com/in/cassidy-hassell/](https://linkedin.com/in/cassidy-hassell/)

## EDUCATION

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### Texas A&M University

College Station, TX

*Bachelor of Science in Computer Science, Minor in Studio Art*

*Expected May 2027*

- Engineering Honors Program
- Cumulative GPA: 4.0
- Relevant Coursework: **Machine Learning**, Foundations of Software Engineering, **Database Systems**, Computer Systems, **Advanced Algorithms**, Reverse Software Engineering, Parallel Computing

## EXPERIENCE

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### Math Learning Center Tutor

Aug. 2025 – Present

*Texas A&M University*

*College Station, TX*

- Math 150/151 – Precalculus / Engineering Calculus I
- Facilitate one-on-one and small group tutoring
- Identify gaps in student understanding and tailor individual explanations
- Manage high-traffic help sessions, assisting up to 8 students at a time and consistently maintaining average wait times under 10 minutes during peak periods
- Assisted 15–20 students weekly, including 60% repeat students who returned for continued support throughout the semester

## PROJECTS

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### Panda Express POS System | *NextJS, TypeScript, React, Prisma, PostgreSQL, Git, Figma, Jira* November 2025

- Directed sprint planning and backlog refinement as Scrum Master, using Jira to organize tasks and track progress across a 5-person team
- Implemented full-stack NextJS website with RESTful API
- Architected a normalized PostgreSQL schema with clear entity relationships, including junction tables and line-item modeling for orders and meals
- Implemented OAuth2.0 Authentication using NextAuth library and role-based session management
- Acted as communication lead, proactively resolving blockers and keeping the team aligned with milestones and deliverables

### Bookstore Application | *MySQL, Flask, SQLAlchemy, Git*

November 2025

- Designed and implemented a relational database schema to efficiently manage bookstore inventory, customer records, and transactions
- Developed a Python-based bookstore management system with separate user interfaces and workflows for customers and managers
- Built RESTful API endpoints to enable secure interaction between the front-end interface and the backend database
- Integrated automated bill generation with an emailing service to streamline customer communications and enhance transaction efficiency
- Built user and password based authentication with JWT managed sessions and role-based authorization

### Grocery Expiration Tracking App | *PostgreSQL, Typescript, HTML/CSS/JS, Figma*

June 2024 – Present

- Designing and building a full-stack web application to reduce household food waste through expiration tracking
- Created high-fidelity interface designs and user flows in Figma to guide feature development
- Planning migration of the original Android prototype to a web-based front-end to streamline ongoing development
- Developed RESTful API endpoints in TypeScript for CRUD operations backed by a PostgreSQL database
- Implemented and maintained database migrations across development and production environments to ensure schema consistency

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, SQL, JavaScript, HTML/CSS, TypeScript

**Frameworks:** React, Express.js, Next.js, Flask,

**Developer Tools:** Git, Postman, VS Code, Android Studio

**Online Courses:** The Odin Project Foundations Course (Summer 2025)