

Cassidy Hassell

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EDUCATION

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

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

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

- Directed sprint planning and backlog refinement as Scrum Master, leveraging Jira to structure tasks and monitor progress
- Implemented full-stack NextJS website with RESTful API
- Architected normalized database schemas 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, resolving blockers and aligning team progress with project milestones

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

- Building a full-stack app to help reduce household food waste via grocery expiration tracking
- Designed interface and user flows in Figma
- Transitioning from original Android version to web-based front-end (in early development)
- Developed RESTful API endpoints using TypeScript for CRUD operations with PostgreSQL Database
- Implemented and maintained database migrations across development and production environments to ensure schema consistency

TECHNICAL SKILLS

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)