

Cassidy Hassell

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Science, Minor in Studio Art

College Station, TX
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

Texas A&M University

Aug. 2025 – Present
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, 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

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)