

# TUCKER VANDENBOS

SOFTWARE ENGINEER | FULL-STACK WEB DEVELOPER | DALLAS, TEXAS

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Software engineer with a background in neuroscience and retail leadership, driven by curiosity for AI and intuitive design. Methodical and analytical, I bring a problem-solving mindset shaped by scientific training. Experienced in building scalable, user-friendly web applications and integrating intelligent models. Strong communicator and adaptable team player with a passion for elegant digital experiences.

**TECHNICAL SKILLS** | Python | Flask | Javascript | React.js | Redux.js | Zustand | Express.js | Node.js | Mocha.js | Vite.js | SQL | PostgreSQL | SQLite | Sequelize | SQLAlchemy | HTML5 | CSS3 | Tailwind.css | Git | GitHub | Render | Docker | OpenAI SDK | RESTful APIs | VSCode | Postman | Pytest | Homebrew | NPM | Nodemon | Framer | Motion.dev

**CURRENTLY LEARNING** | Typescript | Three.js | Next.js | MongoDB | AWS

**PROFESSIONAL SKILLS** | Team Leadership | Team Building and Collaboration | Store Management | Business Analysis | Problem Solving | Profit and Loss Reporting | Customer Satisfaction | Staffing and Scheduling | Interviewing, Onboarding, and Hiring | Training and Development | Operations Excellence | Inventory Management

## PROJECTS

**INSIGHT: Reflective Journaling App** | [GitHub](#) | [Live Site](#) | *Flask • SQLAlchemy • PostgreSQL • Zustand • React*

- Engineered a full-stack AI-powered journaling application with a Python backend and Javascript frontend
- Built four CRUD operations for entries, goals, milestones, and insights employing Flask blueprints to write RESTful API endpoints, connected to PostgreSQL database via SQLAlchemy Object-Relational Mapping
- Designed responsive frontend components with React and Zustand for lightweight state-management
- Integrated OpenAI's SDK to build a personalized journaling LLM assistant, using tailored prompts and secure Flask endpoints to analyze user data, generate reflective insights, and persist model responses
- Utilized additional external APIs to pull live location-based weather and moon phase data into entries
- Implemented automatic sentiment analysis on entry creation to identify patterns and give deeper insights

**GROUP96 INVESTORS: Robinhood Clone** | [GitHub](#) | [Live Site](#) | *Flask • SQLAlchemy • React • Redux • PostgreSQL*

- Created a full-stack stock trading and investing application inspired by Robinhood
- Leveraged the DeepSeek-compatible OpenAI SDK to integrate a custom LLM chat assistant, using prompt engineering and RESTful Flask API endpoints to serve dynamic investment insights
- Pair-programmed with AGILE methodology, Kanban-style planning, task delegation and asynchronous development with a group of student developers learning Python-Flask and web development
- Deployed the Flask backend utilizing Python decorators and Flask blueprints to create RESTful API endpoints, backed with a PostgreSQL database via SQLAlchemy ORM for scalable data storage and secure authentication; responsive UI built using React.js and Redux for robust, smooth state management

**AIR-HOLLAND: AirBNB Clone** | [GitHub](#) | [Live Site](#) | *Node.js • Express.js • Sequelize • React • Redux • PostgreSQL*

- Developed a full-stack Javascript AirBNB-style app, allowing users to browse and list rental properties
- Utilized Node.js and Express.js to build RESTful routes, and a PostgreSQL database via Sequelize ORM

## EXPERIENCE

**Store Manager** • Starbucks Coffee Company • Dallas, TX

09/2021 – 11/2023

- Led cross-functional teams and optimized daily operations across multiple high-traffic locations, building strong project ownership, agile prioritization, and stakeholder communication skills.
- Mentored and developed team members through structured training and performance feedback, sharpening collaboration, documentation, and continuous improvement skills essential in software teams.

**Barista, Shift Supervisor** • Starbucks Coffee Company • Dallas, TX

09/2018 – 02/2019 - 09/2021

- Gained early leadership experience in team coordination, time management, customer service excellence

## EDUCATION

**APP ACADEMY** • Full Stack Web Development • Software Engineering Track • Remote

Completed 03/2025

- 1,000+ hours of coding in Javascript, Python, Flask, React | Regular Pair Programming and Agile workflows

**MONTANA STATE UNIVERSITY** • B.S. Cell Biology and Neuroscience • 3.44 GPA with Honors • Bozeman, MT

2016

- Relevant Coursework: Cognitive Psychology, Neurophysiology, Pathophysiology, Molecular Biology - understanding logic, pattern recognition, and decision making systems mirrored in software design