

# Brandon Mason

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## EDUCATION & CERTIFICATES

B.S. in Computer Science from Texas State University	December '25
A.S. in Computer Science from Austin Community College	March '23
Full Stack Web Development Certification from Tech Talent South	March '23

## TECHNICAL SKILLS

*Programming:* TypeScript, HTML, CSS, SCSS, Node.js, React, Angular, RxJS, C++, C, Java, Python

*Development Tools:* VSCode, GDB, LLDB

*Productivity:* Jira, Bitbucket, GitHub, Git, Azure DevOps

## EXPERIENCE

*Application Developer Intern - University Federal Credit Union - Austin, TX*      *June 2025 - Present*

- TypeScript, Angular, RxJS, SCSS, Bootstrap: Developed features for a web banking application.
- Agile Collaboration: Participated in sprint planning, task management, and daily stand-ups.
- WAI-ARIA & Responsive Design: Ensured cross-browser compatibility and accessibility.
- Refactoring: Updated legacy components for maintainability and scalability.
- Design Patterns: Created reusable components and service patterns.
- Code Quality: Contributed to code reviews, testing, and documentation.
- Jest Testing: Wrote and maintained unit tests for reliability.
- Figma Integration: Converted UX designs into responsive, accessible UI components.

## PROJECTS

*Piano Application (MERN Stack) - [GitHub Repo](#) - [piano-roll.vercel.app](https://piano-roll.vercel.app)*

- React, Tailwind CSS, Express.js: Developed a full-stack piano web app supporting interactive QWERTY keyboard input.
- Keyboard Integration: Enabled piano play via physical QWERTY keys for intuitive user interaction.
- Sequencer Grid: Implemented time-grid recording, allowing notes to be added by double-clicking grid cells.
- Keyboard Shortcuts: Built features for manipulating note length and position with Shift and Command/Control keys.
- Configurable Controls: Added functionality to adjust grid subdivisions, tempo, volume, octave, and measure count in real time.
- MIDI Integration: Enabled import and export of MIDI files for project portability.
- MongoDB Atlas: Developed user account system for saving and retrieving projects in the cloud.

*OpenAI Image Generation GUI(JS or Java) - GitHub Repos: [JS](#) - [Java](#)*

- Prompt Section: Created a dynamic prompt area featuring a text box and action button.
- API Request Handling: Automatically disabled user input during API operations to improve responsiveness.
- Download Feature: Added a button for users to open a save dialog and download generated images.

*Astro/Strapi Blog Website - [GitHub Repo](#)*

- Astro, Strapi, Supabase, React: Built a dynamic blog platform featuring automated cron jobs for background tasks.
- Subscription System: Developed robust user management of email notifications for new content.
- User Interaction: Enabled account creation, commenting, post liking, and subscription management capabilities.
- Project Lifecycle: Maintained platform through active use, currently archived.