

Ian Heath

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WORK EXPERIENCE

Immersion Studio at Texas State University

August 2023 - Present

Programmer

San Marcos, TX

- Software Development and Maintenance. Worked under and experienced in developing, testing, and maintaining software applications and systems to support diverse university initiatives. One of the software applications mentioned includes using Elliptic Curve Cryptography for secure authentication, digital signatures, and defense against harmful AI, with expertise in continuous security enhancement.
- Database Management and Integration. Experienced in managing databases, utilizing Firestore Database, SQL, and database management systems to optimize data storage and retrieval processes.
- Technical Support and Troubleshooting. Committed to providing exceptional technical support to university stakeholders, resolving software-related issues promptly and effectively. Skilled in communicating technical concepts clearly to non-technical users, ensuring smooth operations and user satisfaction.

Five Star Nutrition

December 2020 - October 2021

Sales Associate

Austin, TX

- Customer Service and Product Knowledge. Dedicated to delivering exceptional customer service by leveraging in depth knowledge of nutritional supplements and wellness products.

Turnkey Realty

June 2019 - October 2020

Real Estate Agent

Odessa, TX

- Client Representation and Negotiation. Proficient in providing comprehensive representation to clients through real estate transactions. Skilled in negotiating favorable terms and agreements while prioritizing client interests.

EDUCATION

Texas State University

December, 2024

B.S. , Computer Science

San Marcos, TX

- 3.2 GPA
- .EXE Club

CERTIFICATIONS, SKILLS & INTERESTS

- **Skills :** Proficient in: C++, Java, JavaScript, HTML, CSS, SQL

PROJECTS

- Webpage for Immersion Studio: Showcased expertise in HTML, CSS, JavaScript, and Firestore Database by developing a dynamic webpage. Designed to efficiently store student information and track traffic flow within the Immersion Studio of the Texas State Library. Additionally, the webpage highlights upcoming events and features available to users.
- Veteran Memorial Site using Elliptic Curve Cryptography: Participated in the creation of a veteran memorial site, being mentored under the implementation of Elliptic Curve Cryptography (ECC) to authenticate and share veterans' stories. GPS functionality for locating memorial sites using HTML, CSS, and Javascript was implemented, thus supporting the projects' objective of honoring veterans through technology and cryptography.
- Developed CaptionForge, a desktop application that streamlines subtitle generation and editing for video and audio content, utilizing PyQt5 for user interface design, ffmpeg for media processing, and Whisper for accurate automatic transcription. The application offers an intuitive interface for efficient transcription and subtitle customization, enhancing media accessibility and viewer engagement. Demonstrated proficiency in integrating complex technologies and commitment to improving media engagement. This application is projected to be used by Texas State University.